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The South Should Know

Whereas; Accurate, comprehensive facts about North Carolina and the South are necessary to every teacher in our schools, and to every business and professional man, and as these facts are nowhere so accurately and comprehensively compiled and published as in the Blue Book of Southern Progress, and;

Whereas; The 1924 edition of the Blue Book of Southern Progress is just being published by the Manufacturers Record, of Baltimore, in permanently bound form, telling the story of North Carolina and the South as no other book tells it; Therefore,

Be It Resolved; That the Winston-Salem Real Estate Board hereby request and urge each of its members to purchase a copy of the Blue Book of Southern Progress; that they study the contents of this book and thoroughly familiarize themselves with what North Carolina and the South have accomplished, and the wonderful possibilities offered here;

Be It Further Resolved; That the faculty and teachers in the public and private schools and colleges, and all business and professional men in Forsyth County be requested to secure a copy of the Blue Book of Southern Progress, that we in this generation may have a more comprehensive knowledge of our State and Southland, and that we may hand down in full measure to the next generation, a true appreciation and growing pride in the wonderful spirit of the State and the South, which has made possible the great progress and possibilities of North Carolina and the South, as the world sees them today.

Unanimously adopted by the Winston-Salem Real Estate Board at their regular semi-monthly dinner, Tuesday April 29, 1924.

WINSTON-SALEM REAL ESTATE BOARD, By J. S. Kuykendall, Executive Secretary.

We give this conspicuous place to the foregoing resolution adopted by the Winston-Salem, North Carolina, Real Estate Board, not so much for the influence which it may have in extending the circulation of the Blue Book of Southern Progress but as illustrating the awakening sentiment among the more intelligent business people of the South to the supreme importance of educating the South to "know itself." If there were any other publication which gave more information in regard to the South than the Blue Book of Southern Progress, we would commend it heartily and seek to extend its circulation in the interest of Southern development.

We believe the facts about the South should be printed over and over again, for it is only by line upon line and precept upon precept that these facts about the South, past, present and to come can be driven deep home into the hearts and minds of Southern people. We must create among the young and the old, the men and the women, the boys and the girls alike, a spirit of enthusiastic love for the study of the South that they may know the foundation on which it is building, that they may comprehend the inherited traits of character which have come to Southern people by reason of the unequaled business ability of the men of the Old South prior to 1860, and that they may feel that as Southern people they hold in trust for development for the good of the world the greatest resources which nature has ever bestowed upon any section of the world.

The resolutions passed by the Winston-Salem Real Estate Board are heartily appreciated. We trust that the action suggested in these resolutions may not only give to the people of North Carolina an opportunity of knowing their State and the South but that this action may have an influence upon all other people of the South in carrying on a similar line of work for the good of the South, for the enlargement of the vision of its people, for the development of their patriotism, and the expansion of their business activities.

The 1924 edition of the Blue Book of Southern Progress is now ready for distribution.

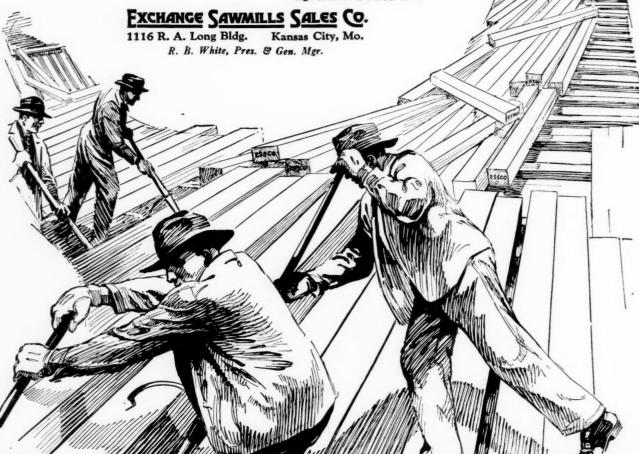
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Manufacturers Record

Exponent of America



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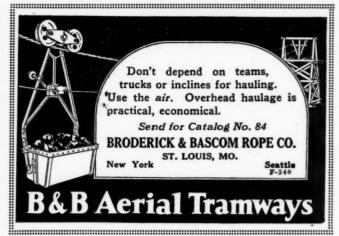
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Vol. LXXXV No. 19 Weekly.

BALTIMORE, MAY 8, 1924.

SINGER COPIES, 20 CENTS.

The Diagnosis of a Mississippian As to What Is the Matter With the South.

A LETTER of striking interest, which puts the finger on a sore spot in some Southern states, is from T. C. Hannah, an attorney-at-law of Hattiesburg, Miss., who writes as follows:

"I always thoroughly enjoy reading your paper. Your persistent and continued championship of the South is admirable.

"I have read with interest the article in the issue of February 14, entitled 'How the South is Misrepresented.' There is a great deal of merit in what you say. I do not think you have gone quite to the root of the evil, however.

"Our greatest trouble in Mississippi is the native Mississippians. Having been born and reared in the state I feel at liberty to offer this criticism; particularly in view of the fact that I have been an active member of some of the organizations that are guilty.

"The principal pastime of a good many of our organizations is the pointing out of the things that are wrong with Mississippi.

"The ablest men and the best talent in the state get together in statewide meetings and vie with each other in criticising our laws, public officials, etc. They point out that the boys and girls leave the state and go into detail as to the reason why.

"I have come to the conclusion that the principal reason that our boys and girls leave the state is because these organizations and these meetings so magnify the evils of our own state and minimize the shortcomings of other states until these boys and girls conclude that they would be foolish to remain at home.

"Nearly all of the business and professional men that take part in these meetings become obsessed with the idea that Mississippi has more things wrong with it than any other state in the union. The result is that when prospectors come into our midst our people are much better prepared to talk of the state's short-comings and disadvantages than they are of its advantages.

"This has a two-fold effect: first, with this mental attitude there is no possible chance for our people selling our state to outsiders and second, our home people are reluctant to invest their money and push forward in any local development. They, therefore, complain that outside capital will not come in to develop our natural resources, while they themselves are unwilling to invest their own money.

"In making these observations I am not talking about 'the other fellow.' I am talking about the organizations of which I am and have been a member; and I am talking about the people with whom I have been training for several years. My investigations have brought me to the conclusion that, taken as a whole, the state of Mississippi has no worse laws and no higher taxes than most other states in the Union, and

that its greatest drawback is the fact that these many organizations are misrepresenting the state rather than representing it.

"If there was some means whereby your information and enthusiasm about the Southern states could be transfused into the blood and brains of the people of these states, the South would not have to bother any more about being 'misrepresented.' We would continue to appreciate so loyal and faithful a champion as you are and have been, but we would not have near so much need for you."

It has been said that "an honest confession is good for the soul." An explanation given by theologians as to the meaning of "repentance" is that a man must not only seek pardon for his sins but must turn and face about the other way and go in the direction entirely contrary to that in which he had been walking. The repentance that does not change a man's life and start him in an opposite road is not genuine.

Now, if all the people in the South who have followed in the footsteps of Mr. Hannah would be equally as frank in admitting that they have been a part of that large element which does not rightly appraise the resources and the possibilities of the South, and would do as Mr. Hannah, face about and determine to change their mental attitude to this section in order that they may be able to "sell" the South to themselves and to the people of their communities, the South would then "sell" itself to the nation.

As a native of Mississippi, Mr. Hannah feels justified in criticising himself and his fellow citizens for having failed to do the things which should be done, not only in Mississippi but in every state in the South, to awaken the people to the possibilities of their own community and their own state.

A noted public lecturer has delivered over 6000 times his celebrated lecture "Acres of Diamonds," in which he tells of people who have left their native place, thinking that just over the line, or in some other state, larger opportunities will be found, while others have come in and utilized these opportunities and made fortunes thereby. When a mule is put in an enclosed field he always, if possible, stretches his head over the fence to nibble at the grass on the other side, even though that on his side may be the better, but he wants to see if he cannot find something better than he has.

We are all too much inclined in the South to think that in some other state, or some other section, conditions for progress are better than at home. And to some extent this will be true until the South itself takes hold of the situation and "sells" itself to its young people until every last living one of them becomes an enthusiast on his country.

A few days ago we received a letter from a man in faraway Australia. It did not indicate that he was a man of business nor of much education, but he so literally boomed over with enthusiasm about Australia that he wanted us to

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let him tell our readers all over America what a glorious and wonderful land Australia is. He had caught the spirit of enthusiasm, and he was doing his utmost to tell the world about Australia. He informed us that he understood "that you guys know very little about this vast country of ours," and that therefore he was anxious to tell Americans through this paper, or individually, how great were the opportunities in his country. He said he had a number of friends, including children, all of whom were interesting writers, who would be delighted to write about Australia and to send photographs and newspapers so that "knowledge could be exchanged to advantage." "I am eager," said he, "to place sunny Australia on the map in the United States of America."

His spirit is the kind which should prevail in the heart and the mind of every Southern man and woman, and of every boy and girl.

Some years ago a little boy, then eight or nine years old, who had been living in Atlanta for five or six years, having been born in a beautiful section of Baltimore, sat on the writer's lap one day and began to argue as to why Atlanta would outgrow Baltimore; and then with the enthusiasm of the youngster spirit he said: "I feel like taking off my coat and helping to make Atlanta a great city."

That is the spirit which made Atlanta; that is the spirit which could build cities in a desert; that is the spirit which if properly utilized and developed could make the South in agriculture the garden spot of the world, and in industry the center of the world's greatest industrial activities; in education the foremost center of America; in religious life the center of the world's greatest religious advancement.

If everybody in the South would do the same thing for his own community, and his own state, and the South at large, there would soon be not only a cessation of emigration from the South but a great rush of people from other sections into the South to learn that the things said of this section did not tell one-half of the real story.

Mr. Hannah feels that if this condition could be brought about, the progress of the South would be so great that while its people would still appreciate the work of the Manufacturers Record it would not "have near so much need for you."

There is a long road to travel yet before that time will be reached; and there will even then, we think, be room and work for the Manufacturers Record to do. When this section has doubled and quadrupled and quintupled its progress and prosperity, all of which is entirely feasible, it will even then only have begun to scratch the surface of its possibilities for still further progress.

Then on with the good work! Let the people of the South acquaint themselves with the South. Let them know its history. Let them enthuse over its opportunities. Let them stop talking pessimism. Let them ignore some of the smaller things which here and there are unfavorable, and let them concentrate with a new birth in the spirit of the Old South. which prior to 1860 had wrought greater marvels in industry and agriculture and in wealth, in proportion to population as compared with the rest of the country, than the South of today has yet achieved.

CIVIC RIGHTEOUSNESS.

R. HOSHALL of the Hoshall Machinery Company, Memphis, Tenn., writes: "I want to thank you and commend you for your editorial on the front cover of the Manufacturers Record of April 17. I sincerely trust that every voter in this broad land may have the opportunity to read your editorial and I wish you much success in your effort to promote the doctrine of civic righteousness. I am proud to say that Memphis has a Mayor who is of the same mind as yours."

PRESIDENT COOLIDGE SPEAKS FOR THE PEOPLE.

"N O public requirement at the present time ranks with the necessity for reduction of taxation," said President Coolidge in his veto of the Bursum bill to grant pensions and increases in connection with the Civil and the Mexican Wars. Through President Coolidge spoke each and every taxpayer, either directly or indirectly. "The need for economy in public expenditure at the present time cannot be overestimated," said the President; and "Amen," say the people.

The reduction of taxes "cannot be secured unless those in authority cease to pass laws which increase the permanent cost of government," adds the President. "The burden on the taxpayers must not be increased; it must be decreased. Every proposal for legislation must be considered in the light of this necessity."

Mr. Coolidge proves himself a President of all the people—in contrast with a Congress which has an eye single to its own political interest and to the vocal minorities which it believes can best advance that interest. The words of Mr. Coolidge are the voice of sound sense, of wisdom and of justice. Taxation must be reduced, not increased, and President Coolidge has stated this fact clearly and strongly.

AN ERRONEOUS STATEMENT BY THE FEDERAL COUNCIL OF CHURCHES.

A DISPATCH from Washington, released for publication May 1, said:

"The churches of America told Congress this afternoon that they want the United States to join the Permanent Court of International Justice. It was at the hearing on the World Court before a section of the Senate Committee on Foreign Relations. The churches told Congress jointly through the Federal Council of Churches, composed of 29 great communions with more than 20,000,000 members, and by denominations, that they are a unit in support of the World Court."

That statement is definitely false. The churches of this country have not told Congress any such thing. The Federal Council of Churches—which presumes to speak, though without authority coming from all the churches—made these statements, but it is an absolute misstatement to say that the "churches of America" told Congress what is here claimed, or anything else.

It is an unfortunate situation that the Federal Council of Churches assumes to speak by an authority which it does not possess. Even if all that it said was good, the churches of this country—and there are many of them which are in no way whatever affiliated with that organization—have a right to protest against being made to say things which they have never said. Certain officers of that organization, and certain representatives of some denominations may have been responsible for these statements, but the "churches of America" have not expressed themselves individually on the subject, and until they do so no one has a right to send out a statement saying "the churches of America" told Congress this, that, or the other. Such statements are an assumption of authority by individual officers who have no right to speak for all the churches of this country.

VIGOROUS CAMPAIGN NEEDED.

HON. THEODORE E. BURTON, Member of the House of Representatives, in a letter to the MANUFACTURERS RECORD, referring to a recent article on Muscle Shoals, said:

"I congratulate the MANUFACTURERS RECORD on its action upon the Ford proposal. It seems to me hardly possible that this offer can be accepted, but it will require a vigorous campaign to defeat it."

THE SPIRIT THAT BUILDS: HATS OFF TO TULSA.

N a pause for contemplation of ambitions fulfilled and for formulation of ambitions for the future, over 400 business men of Tulsa, Okla., recently reviewed that city's tremendous growth from the days of 1900, with a population of 1390, to the present, with about 75,000 people. Tribute was paid by various speakers to the pioneer citizens-"there were giants in those days," indeed-but as the foundation for the growth of Tulsa, of Oklahoma and the entire great South and Southwest was and is the spirit that builds. "You said we couldn't, but we did," is the way three pioneers expressed it in an inscription on a bridge they erected over the Arkansas River, years ago. "Possunt quia posse videntur" is the way the ancient poet put it; liberally translated, "They are able to do it because they believe they can do it." That has been and is the spirit of Tulsa, of Oklahoma and all the South and Southwest.

The prosperity of Tulsa appears to have been founded on three major points: Confidence of the pioneers in the future of their city, fearlessness in staking their all on that confidence, and the exercise of energy and business acumen in carrying out their constructive moves. For instance, in the early days of the century, with aggregate banking capital and deposits of only \$31,000, the people of Tulsa raised \$75,000 to induce a railroad to enter its gates and \$63,000 to pay the Government for town sites, a total more than four times the amount of the banking assets. Such a step required confidence and fearlessness.

Probably the great crisis in the early days of the city's history arose in a demand for a bridge over the Arkansas River, and ultimately was met by its construction. Without this bridge, transportation facilities would have carried all the trade from the west to Red Fork, and Tulsa would have been totally eclipsed. But Mel Baird, George Williamson and Don Hagler arose to the emergency and built the bridge at a cost of \$28,000, and the future of Tulsa was assured. Well may they be excused for gloating, "You said we couldn't, but we did." Red Fork now is a lovely little sister of Tulsa, with about 1000 population; conditions well might have been reversed.

Then, achieving the tremendous population of 5000, Tulsa decided it needed a street railway, and a company was organized to establish it. The sledding, to put it mildly, was hard. Confidence was abundant, but money was scarce and the promoters shouldered a staggering burden. Eventually, on the last day before forfeit of the franchise, the builders had rails thrown on the rough ground, they borrowed a street car from Muskogee and with four mules hauled it over the route and saved the day. Which, taken by and large, was enterprise.

The next ambition of the little city was the acquirement of Kendall College, then situated at Muskogee, and the people went after it with the energy characteristic of the great Southwest. One hundred thousand dollars was to be raised to match an equal amount to be raised by the college, and in a short time the sum was forthcoming and the institution migrated to its new home in Tulsa.

First of the industries of the town was a milling plant established by Jay Forsythe and Ben Colley, and second a cotton gin owned by Emmett Smiley. These whetted the appetite of the people for industry and a campaign was instituted to attract other plants, which have contributed largely to the prosperity of the city.

By no means the least interesting chapters in the history of Tulsa are those relating to its railroad development, chapters full of descriptions of hard work and worry, of occasional disappointment and of ultimate success. Rivalry developed between Tulsa and Red Fork, with connection to the Alabama, Vicksburg & Western and Midland Valley roads as the prize, and eventually Tulsa made advantageous arrangements, which helped in the development of the city. In one instance, indeed, an official of a railroad arranged for its entry into Tulsa and was discharged from his post; but, apparently, the company later decided he was right.

The foundation for Tulsa's position as an oil business center was laid when the first Glenpool well was brought in, at the close of 1905, and the first pipe line was laid soon thereafter. From that time Tulsa has been recognized as an o'! business city, in the very front rank.

The first wholesale business house in Tulsa was a branch of the Ratcliffe-Sanders Grocery Company, with headquarters at Vinita. This was opened in Tulsa in 1905 and soon outgrew the parent quarters and made Tulsa the home office, the business increasing from \$10,000 a year to almost \$3,000,000 annually.

Of recent years the value of good roads has been recognized by Tulsa and under a state law the city soon will have 100 miles of paved roadways leading out from it in various directions and motorists soon will travel from Tulsa to Oklahoma City on a paved highway. In fact, it is said that the era of mud has passed in Oklahoma .

The first hotel of Tulsa was opened by Colonel W. N. Robinson, boasting of 65 rooms and known as the St. Elmo. Next arose the Brady House, a five-story structure and later an eight-story addition, with a total of 200 rooms, but this proved insufficient for demands and a 12-story hostelry was constructed. Latest in the hotel list is the Mayo, a house of 20 stories and described as one of the finest west of the Mississippi River.

Now, the business men of Tulsa are preparing to play a great part in the national convention of Real Estate Boards, to be held in Washington in June. A special train will be ordered to carry a great delegation of real estate men and citizens active in other lines of business, and the advantages of Tulsa will be laid in detail before the visitors from other sections.

The country at large raises its hat to Tulsa in congratulation. And the achievements of that city may be regarded largely as typical of the achievements of the entire section of which it is such a prominent part.

WHERE EVERY SOUTHERN STATE SHOULD TRY TO OUTDO ITS NEIGHBOR.

THE activity in preparing for the Southern Exposition by Georgia and Tennessee and other Central Southern states should stimulate every state in the South to be represented at that Exposition. If any state should fail to be there, with best foot forward, it would miss one of the best opportunities, perhaps the best, which has ever been given to the South to push itself boldly and bodily straight into the heart of the East with an exhibit of resources which would command national attention.

There should be on the part of every state in the South friendly but active and vigorous rivalry in order to make the best exhibit at the Exposition. Every state should seek to show what it has and what it is doing, for by their exhibits these states will be judged. The state which makes a poor exhibit or the one which omits to make any, if there should be a single one, thus falling short, would regret this for only once, but that once would be for all time, for the water which has passed over the wheel can never return and the opportunity once lost never comes back again. Other opportunities, it is true, may come, but the one that is gone is gone forever, and the opportunity of making an exhibit in New York is one which should appeal to the pride of every state in the South.

EXPANSION OF BUILDING FOR HOMES AND FACTORIES BY CREDIT SYSTEM.

THE building of homes through the building association plan has made it possible for hundreds of thousands of people to build or buy on credit homes which have added much to individual comfort and to national progress and prosperity. The buying of automobiles on credit has been largely responsible for the automobile development which has given to this country 14,000,000 of the 17,000,000 automobiles in the world. Perhaps here and there the purchase of an automobile on credit has been for the individual very unwise, but in the large the purchase of automobiles, like the buying or the building of homes on credit, has caused men and women to save money which would otherwise have been frittered away, and to enjoy blessings which they could not have secured in any other way. There is always some danger in overextended credit, but this is not so great a deterrent of progress and prosperity as the lack of credit.

For years it has been the custom of some of the larger and more substantial land companies engaged in home building to help finance the buyers or the builders of homes. One such company in Baltimore which has secured the investment of many millions of dollars in suburban homes has long pursued the policy of financing for the buyer or the builder of the homes to the extent of 80 per cent of the cost of the land and the house; and thousands of people are the happier and the better for having been able to avail themselves of this privilege. Savings banks have found one of their wisest investments the lending of money on mortgage for home building.

Expanding this thought of financing homes and even business buildings, the National Lumber Manufacturers' Association recently appointed a committee to consider a plan of financing second mortgages by which material men would be able to sell their commodities on what might be called the installment basis. The thought back of the plan is to make the financing of home building as easy as the financing of an automobile purchase.

A similar plan for industrial enterprises has been worked out by the Blaw-Knox Company of Pittsburgh. In an announcement in regard to this plan it is said that the purchase of buildings for any purpose is made feasible on a "pay for them as they earn for you" plan. This involves the building of factories, machine shops, commercial garages and warehouses on a credit basis, permitting the owners of these enterprises a larger freedom for the use of their available capital.

This company announces through President Lehman that it will undertake the erection of manufacturing buildings costing from \$1000 to \$50,000 on this basis; and it emphasizes the point, and wisely so, that as our industries have expanded to meet increasing needs so has the demand for money-credit become more insistent. Many a business grows more rapidly than the capital, which results sometimes in doing business at a disadvantage and sometimes in being unable to continue the expansion of what would otherwise be a profitable business.

According to the Blaw-Knox announcement of the buildingfinance plan, the company is now ready to finance and supply needed structures so that any business, large or small, may have the same extension of credit that they in turn extend to others. Until it was in a position to undertake to build and finance on this basis the company wasnot prepared to carry out such an undertaking.

Emphasis is laid upon the fact that with the perfection of standard steel buildings the cost of construction has been greatly reduced, and that now factory buildings can be erected within thirty days, standard shop production methods being applied to the erection of such buildings.

Many methods are being devised to enable people to buy everything on the credit or installment plan, from household goods to houses, from automobiles for the individual to locomotives for railroads. It is to some extent giving to people of moderate or small means the credit facilities always enjoyed by the rich. This credit system may be carried much too far and become dangerous to the business structure, but if wisely handled and controlled it will not menace the home owning power of the people and the factory extension power of industrial interests.

LOUISIANA SUBSTITUTES PROGRESS FOR TRADITION.

N O MORE gratifying and significant indication of the constructive progress of the South has been noted of late than a reception recently tendered to United States Senator Joseph E. Ransdell by his constituents in Louisiana, in appreciation of his work in Washington for his State and for the Nation as a whole. In this was expressed approval of his protective tariff policy by a traditionally anti-tariff section, and the endorsement of a Democrat by many leading Republicans and other political partisans.

As pictured by Senator Ransdell the pressing problems and duties of the South center largely in the following subjects: Flood control, development and intensive utilization of superpower, curtailment and prevention of waste of oil and natural gas, reclamation, development of inland waterways and protection by tariff for sugar and other Southern staples. Any one of these problems might well be described as "paramount," yet the solution of all is not beyond the possibilities of the early future.

"Sugar," said Senator Ransdell, in effect, "has been the football of the politicians and it has been difficult to protect it with a proper tariff." Senator Ransdell well might have gone much farther and have said that the tariff principle as a whole was the politicians' plaything, and the juggling of duties on sugar was merely a part of that game.

The outstanding point, however, is the fact that the South now realizes that a protective tariff will be of tremendous value in the enhancement of its prosperity. For, literally, generations "the tariff" was the major issue between the Democratic and Republican parties, the former opposing "protection" and the latter preaching the gospel and practicing it when given opportunity. Cotton, lumber and rice and other Southern commodities cried for a protective tariff, but tradition and "party loyalty" drowned the cries. Support of a protective tariff measure by a Southern statesman would have been equivalent to political hari-kari. "A wise man changes his mind; a fool, never"; the switch of the South to protection of its industries proves that it is no "fool."

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Especially appealing to the people of Louisiana was Senator Ransdell's demand for flood control. Of the 28,000 square miles subject to overflow from the Mississippi river and its tributaries, 14,000 lie in Louisiana. As Louisiana has joined the industrial North in the move for commercial and economic protection, so the North and other sections must join the South for the physical protection of the lands from which it harvests its prosperity.

The problems enumerated by Senator Ransdell are not sectional, but of nationwide interest. Their particular importance to the South chances to be incidental—by other chance they might have been individual to some other section. Solution of the problems is the duty of the country at large, and not of the South alone. But it is a fine and encouraging thing to see a Southern statesman throw off the bonds of mistaken tradition and petty politics, and equally fine to see his people stand beside him in his fight for the new cause they have espoused.

THE GUARANTEE OF BANK DEPOSITS.

NFORMATION that the Legislature of Louisiana may consider a bill for state guarantee of bank deposits comes to the Manufacturers Record, and on the heels of the refusal of Mississippi to repeal its quasi-guarantee law indicates that the time has come for the people of the South to give deep study to that question, in which event, we are convinced, they will condemn such legislation. Back in 1918 such national bank legislation was attempted by Congress, but so overwhelming was public disapproval that the measure failed of enactment, even though backed by two or three prominent Government financiers.

Unlike several "popular" movements, such as the direct primary, the direct election of United States Senators and non-exemption of certain securities from national taxation, the proposition for state guarantee of bank deposits is not attractive even in theory. On the one hand is the theory that depositors will be protected against loss; on the other hand is the fact that every man, woman and child in a stateguarantee Commonwealth will be taxed directly or indirectly to cover losses incurred in an overwhelming majority of failures through the personal dishonesty or criminal carelessness of bank officials. In short, bank officials may rob depositors for their own enrichment and the people at large will reimburse these depositors, and thus indirectly provide the money which the careless or dishonest have filched.

Picked up at random at this writing, a report of the Comptroller of the Currency issued in 1917 shows that out of 580 failures of national banks in the entire history of the National Banking Act, 473, or over 80 per cent, were occasioned by eriminal action, unlawful acts and injudicious banking; it is highly probable that in state banks this proportion is equally as high. Are the people of the nation or of any state to be compelled to make good the shortages caused by criminal action, unlawful acts and injudicious banking? Such losses should fall on the stockholders and not be imposed on innocent bystanders.

By advocates of this socialistic policy, state guarantee of bank deposits is described as "insurance." The simile is deceptive. A person insures his own property; not the property of others. Further, when one insures his house he places the risk with a sound and experienced company which, after due investigation, establishes rates and conditions and also declines business it may consider undesirable.

No matter what plan or scheme be devised for such guarantee or "insurance," it cannot be other than fundamentally unsound, economically unsafe and generally unfair and unjust to the people. To say that all state banks will pay pro rata shares of the losses is misleading; the people will pay, directly and indirectly. The people always do pay, in the end. Be it a tax, general or special, it is passed on to the people. Be it an assessment on a guarantee, it is passed on to the people. Be it a deficit in railroad management by the Government, it is made up by the people. The people are the source from which the rivers of money flow into the great sea.

Against business mismanagement or dishonesty there can be no preventive insurance. This is a world of chances, and the best one can do is to be on his guard against disaster. whether it be in crossing a street or in depositing money in a

State guarantee of deposits, whether by the state itself or by compulsory contribution from solvent state banks, puts a premium on recklessness, if not criminal carelessness or dishonesty. Delicate consciences may be soothed by knowledge that the loss of money stolen from a bank will not fall on the depositors, but will be made good by other banksthat an official will not be robbing a friend, because there can be no robbery where there is no loss. He merely will be robbing the stockholders and depositors of honest banks, who are strangers in whom he is not interested. This may seem an exaggeration, but some consciences are queer things.

In certain sections, it is reported, where deposit guarantees prevail, the bank failures have been so numerous and the losses so great that the guarantees could not be collected to cover them without disaster to the surviving banks.

Right over in Mississippi, next door to Louisiana, even the partial-guarantee plan has not been a success. Under the law in Mississippi, the state takes charge of a broken bank and issues certificates, to be paid from whatever may be salvaged from the wreck and from assessments on solvent banks. There now are outstanding, it is disclosed, \$2,000,000 in such certificates, and at least fifteen years will be required to settle them. These certificates, by the way, are selling for about fifty cents on the dollar.

From state guarantee of bank deposits to state guarantee of business of any kind should be only a short step. The butcher may as logically be compelled to go to the help of his embarrassed brother butcher, and the baker and the candlestick maker likewise. A clothing concern which goes to the wall may see its losses made good through assessments levied on other clothing firms.

HOW SILLY TALK CAN HALT PROSPERITY.

THE American Exchange National Bank of New York some time ago issued a circular which puts into a few brief sentences the sum and substance of why business prosperity is often halted by silly talk. The statement is as follows:

"The U. S. A. Prosperity Train was moving along satisfactorily-

'People were working and spending-

"Business was good-

"Down the aisle came Ben Jones, manufacturer, and he dropped in the seat to chat Dick Harley, jobber-"'How's business, Dick?'" said Ben—

"'It's O. K., Ben, but I think we are moving too fast' "—
"'Why?'" asked Ben— "'Don't know,' said Dick, 'just have a feeling that some-

thing's going to happen' "Ben left him and dropped in another seat to chat Harry

Hicks, merchant-'Hello, Harry! You know old man Harley?-cagey old top. Just chatting him. He says business is good but he is afraid something is going to happen'—

'What?' asks Harry-

"'He don't know,' answered Ben, 'he's just nervous'-"And so the story spread from one to another through the train-

'It became the one topic of conversation-

"And it all started because old man Dick Harley got nervous and didn't know why-

"Soon the crowd agreed to pull the bell cord, stop the Prosperity Special, and go down the track to discover the

"They agreed that they might be gone two weeks, two months or two years,—they didn't know—

After investigation they finally decided that nothing was

fundamentally wrong—
"That the same old elements of prosperity—the four seasons, rain, sunshine and natural resources-existed while they were on and while they were off the train-

'That the only change was one of mental attitude-"They simply had thought prosperity temporarily out of existence-

"Then when they found that nothing was really wrong they agreed to climb back on the train and start her going again-

'That is the way 'business cycles' are created-

"It is silly and it is expensive—
"The cure? Just be careful what you say before you know what you are talking about-

"A vagrant idea is dangerous powder—
"A lightning bug's glow is a prairie fire compared to most "But we are learning the wisdom of silence and workmen's knowledge of economics-

THE HOOKER-ATTERBURY-WHITE OFFER FOR MUSCLE SHOALS.

FRANCIS R. WELLER, Consulting Engineer,

Washington, D. C., April 28.

Editor Manufacturers Record:

In last week's issue of the Manufacturers Record you published an article entitled "How Can Mr. Atterbury Do It?" The article clearly misinterpreted the testimony of Elon H. Hooker before the Senate Agricultural Committee, now conducting hearings on Muscle Shoals, and your further comments on the Hooker-Atterbury-White offer indicate that you have the wrong impression as to the terms of such offer. In the absence of Mr. Hooker, and as consulting engineer of this group, I deem it proper to correct the statements in your article.

Mr. Hooker in his testimony stated that under his offer fleight rates on fertilizer would be materially reduced, not or account of any superior knowledge or ability that Mr. Atterbury may have in transportation matters, but due to the fact that we propose to manufacture concentrated 10-40-10 fertilizer, and based on the production of 40,000 tons of fixed nitrogen this would produce 480,000 tons of concentrated fertilizer as compared with 2,400,000 tons of ordinary fertilizer per annum. The saving to the farmer in freight rates is estimated at \$5,760,000. I might mention that we are the only bidder who has worked out a definite plan for shipping concentrated fertilizer, and it is estimated that this concentrated fertilizer can be produced for about 80 per cent of the unit cost of the regular fertilizer. On 40,000 tons annually fixed nitrogen production the saving in manufacture and in freight rates yearly to the farmer will amount to over \$30,000,000.

Mr. Hooker further explained to the committee that he, as president of the Hooker Electro Chemical Company, has had wide experience in the electro-chemical field. J. G. White has been for years head of one of the largest engineering and construction organizations in the country, and W. W. Atterbury is an outstanding figure in the transportation world. These men, therefore, are specialists in the three important departments of the Muscle Shoals enterprise.

At the end of your article you stated: "Their plan would seem to propose the use of all the available power in that (Muscle Shoals) immediate vicinity." A careful reading of our bill would show that our proposition comes under the control of the Federal Power Commission and that we propose to distribute to the industries of the South all the power not required at Muscle Shoals for fertilizer and also electro-chemical requirements. It is estimated that at least one-third to one-half of all the power generated at Muscle Shoals would be so distributed.

As the writer endeavored to show in his testimony before the Senate committee, one of the principal objections to the Ford offer is the concentration at Muscle Shoals of Ford industries that would utilize all of the power at this one point, thus preventing the distribution of this power throughout the South in assisting in the development of Southern industries. Mr. Ford would be given by the Government the use of the cheapest power in the world for a period of one hundred years, and with this great governmental subsidy he could successfully compete with any industry requiring large amounts of power. Our bid is the only one that will return to the Government the full amount of the investment in Muscle Shoals; at the same time it would assure not only an adequate amount of cheap fertilizer, produced under Government direction, but would make available for Southern industrial development a large part of the electric energy from Muscle Shoals.

FRANCIS R. WELLER.

The editorial to which Mr. Weller refers was based

on the dispatches from Washington when Mr. Hooker's proposition was first presented. Later on an elaboration of his statement was issued, but too late for use in the Manufacturers Record of that week. We are glad to have Mr. Weller's explanation of the offer of this group. One point upon which much stress was laid in some of the dispatches was the ability of this organization to manufacture a new metal which would by reason of lower power cost, make it possible to build freight and passenger cars of lighter weight and thus reduce freight rates, but on that point Mr. Atterbury writes the Manufacturers Record as follows:

"In connection with your letter of April 24, with which was forwarded a copy of the April 24 issue of the Manufacturers Record:

"The best answer that I can give to the editorial which appeared in this issue is to quote the following questions and answers exchanged between Senator Norris, chairman of the Senate Committee, and myself at the time I appeared before the committee:

"The Chairman (Senator Norris): Your colleagues have told us, General, that one reason why they sought you out and got you interested was because of your knowledge of the transportation question; that you would reduce the transportation costs of the products. How would you reduce the cost of transportation on fertilizer down at Muscle Shoals if you were to manufacture it?

"'Mr. Atterbury: I don't see that there is any possible way of reducing the cost of transportation of fertilizer unless you use your concentrated fertilizer, as indicated in Mr. Hooker's report. I mean as a general way.

"The Chairman: Any one could do that?

"'Mr. Atterbury: I assume anybody could do that, Senator.

"'The Chairman: There is no reason why, on transportation, you would have any greater ability to handle it than anyone else?

"'Mr. Atterbury: I don't think so. I think Mr. Hooker rather flatters me in that matter."

Bearing on the same subject is a statement made by J. G. White of New York, associated with Messrs. Hooker and Atterbury, to a correspondent of the Manufacturers Record who requested an interview setting forth whatever Mr. White might desire to say on the subject. In the course of his statement Mr. White said "the explanation made in Mr. Weller's letter as to the proposed saving of 25 per cent in freight rates covered the situation, as the saving was simply in the making of highly concentrated fertilizer which would contain about ten times as much plant food for a given weight as the fertilizer now produced, and would enable them to secure lower freight rates. And on the matter of the new metal, upon which considerable stress was laid in the statement made to Congress, he stated that Mr. Atterbury was in France and saw one of the wrecked German Zeppelins. He got hold of a piece of the metal of the frame and was surprised at its lightness. Later he found it to be one of the aluminum alloys, and he said once that if it should be made in large quantities at Muscle Shoals it should be a great factor in reducing railroad costs by reducing the weight of the cars. But neither he nor associates have any definite plans," Mr. White added, " nor even any definite knwoledge for the manufacture of it."

GOODBYE.

JOHN H. BERNHARD, C. E., New Orleans, in discontinuing his subscription writes:

"Do not renew-too much prohibition propaganda."

Mr. Bernhard came to this country from Europe a few years ago and we suppose is as much opposed to prohibition as he is to shutting off the rush of immigration to our country, but the Manufacturers Record will not be at all disturbed by his opposition to the views of this paper.

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PERHAPS, ALSO, MR FORD DOESN'T KNOW SOMETHING ELSE.

As a by-product of a Senate committee hearing on Henry Ford's proposition for the acquisition of Muscle Shoals there has developed an issue of veracity between the President of the United States and one of Ford's men in Washington.

"In private interview had with President Coolidge, he said incidentally: 'I am friendly to Mr. Ford, but wish some one would convey to him that it is my hope that Mr. Ford will not do or say anything that will make it difficult for me to deliver Muscle Shoals to him, which I am trying to do,'" said James Martin Miller in a telegram to Ford's chief lieutenants in Dearborn, Mich.

"'I have never said I was trying to deliver Muscle Shoals to Mr. Ford, or to anyone else,'" said President Coolidge in an answering statement.

"'I want to say that I quoted the President correctly in my message,' retorted Miller."

The Manufacturers Record, together with all right-minded citizens, deplores the breach of confidence indicated in an alleged direct quotation of the President, or in indirect quotation without his express permission. That no such permission was given is indicated by the President's flat contradiction of the original assertion. That President Coolidge's reply will be accepted without question by the American people goes without saying. He is the President of the United States and a gentleman.

An ironclad, explicit and inviolable rule, fully explained and well understood, prohibits Washington newspaper correspondents and other visitors to the White House from quoting the President. Violation of this rule is considered a breach of confidence, to be punished by virtual exclusion from the White House. Yet, this is not the only such violation that has been disclosed in the innumerable investigations now in progress in Washington.

Mr. Ford may not be held by some to be personally accountable for any possible breach of confidence or etiquette by any of his representatives. Indeed, maybe he does not even know the terms in his proposition to snatch Muscle Shoals from the people under an iniquitous contract.

INDIA TEA GROWERS SET AMERICA A GOOD EXAMPLE.

T HE tea growers of India, not to be outdone by the raisin growers of California and other organizations of fruit growers in this country, have determined to begin a campaign of publicity in the United States for the express purpose of impressing upon American people the desirability of drinking India tea. In doing this they set a good example for American cotton interests and indeed for all lines of activity.

In an address delivered in New York recently Sir Charles Higham, who is visiting the United States as the representative of the tea growers of India, gave some interesting facts in regard to tea drinking. In Great Britain the consumption of tea per capita is nearly nine pounds, as compared with less than one pound in the United States.

Sir Charles, in commenting on this fact, stated that the India Tea Growers' Association had asked their Government to put a tax of eight cents a hundred pounds on all tea exported, the money thus raised to be used in advertising the virtues of India tea. The advertising campaign in this country will at first be confined to a few leading eastern cities, but will involve an outlay at the start of \$250,000 a year.

Sir Charles commented upon the value of newspaper advertising as the means of securing results not only for the tea growers of India, but for other English industries. He stated that this was the beginning of an organized movement

on the part of associated manufacturers and producers of things made or grown within the British Empire that would be advertised heavily in the newspapers of the United States. And then be explained that within two years the English interests represented by him would spend at least \$5,000,000 a year in advertising in American newspapers.

In closing his address he stated that the advertising men of the world could do more to bring about universal peace and to make future wars unthinkable than any peace plans or fine spun theories.

And perhaps in this respect Sir Charles is correct.

When the Advertising Clubs of the World met in Atlantic City last summer for about a week's program, some 27 or 28 set addresses or papers were scheduled, bearing on some phase of religion as a factor in the business world making for the benefit of mankind. If the advertising clubs of this and all other countries will carry forward that message in all the ramifications of their activities they can, as suggested by Sir Charles, have tremendous power in bringing about the harmonious relation of the people of all the world based on religion which will be helpful in lessening the dangers of war. And so the power of advertising, the greatest business creator ever known will bring sections of this country and the nations of the world into closer and more friendly acquaintanceship, to the good of all. Advertising therefore should be viewed not merely as a plan for individual business development, but in addition to that as a factor in world business and friendship development.

THE SOUTH INVITES THE PRESIDENT.

RELIABLE report from Washington has it that, while President Coolidge had intended to spend the summer at the Capital, he does not consider himself committed to that idea. Indeed, he is described as "talking frequently about the attractiveness of New England in July and August," and belief prevails that he will spend "at least part of the time away from Washington."

With all citizens who respect the President of the United States, the MANUFACTURERS RECORD hopes that President Coolidge not only will establish a "summer capital" remote from the equatorial summers of Washington, but also will take a vacation, a surcease from the terrific work with which a President in these days is overburdened.

And this vacation, the Manufacturers Record would respectfully and hospitably suggest, well might be spent in the South. No section would give the President more cordial welcome; no people would prove more solicitous for his comfort. In true Southern fashion they would adopt him and make him one of them. And thereafter to his mental pictures of New England President Coolidge would add delightful reminiscences of the South.

The South is pre-eminently a section suitable for a summer vacation. Scores of areas, cities, towns or isolated homes may be mentioned offhand by persons who know the South as ideal summer resorts. Indeed, this knowledge is spreading through the land, and to such extent that some large hotels in Florida "winter resorts" propose to remain open the year around for the accomodation of visitors who have learned by experience that the South is an all-year section. True, the South is hot in spots and at times in summer—just like even New England, from which President Coolidge hails; but in the main he will find fine weather, with a diversity of recreation and opportunity for outdoor life which will rejuvenate him physically and mentally. No one will ask President Coolidge "to study" the South while there; he is invited solely and simply as a guest, and without thought of direct or indirect reciprocation.

Mr. President, the South hopes soon to see you. Its glorious mountains invite you to seek renewed strength and pleasure amid the most beautiful scenery in America.

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HOW TO IMPROVE THE COTTON GROWING FARMERS' CONDITION.

THE President of the First National Bank of Oneonta, Ala., J. S. Wittmeier, knows one of the reasons which is responsible for the financial condition of a large proportion of Southern cotton growers, especially those who raise cotton exclusively and buy their foodstuffs and feedstuffs from the West. Moreover, he has the courage of his convictions, and he has sent to every bank in Alabama the following emphatic letter:

GOOD MORNING:

ARE YOU A GRUB-STAKER BANK?

If you are, either directly or indirectly, you are responsible for the financial condition of the COTTON FARMER.

If you loan money to the farmer to buy GRUB for his horses, mules, cows, hogs and chickens to make a cotton crop, then you are a GRUB STAKER and directly responsible.

If you loan money to the supply merchant to buy, feedstuff to sell the farmers on a credit you are indirectly responsible.

If you rediscount this GRUB STAKER paper you are recognished.

responsible. If you are a GRUB STAKER BANK you are responsible for the lack of prosperity in the agricultural sections of the

If you do not do these things I would like to have your picture to frame and have the inscription written ready to go on it.

If you are guilty I would like to have your co-operation to tell the cotton farmer, THAT THE YEAR OF OUR LORD 1924 WILL BE THE LAST YEAR THEY WILL BE ABLE TO GET CREDIT TO BUY FEEDSTUFF.

If you have nerve enough to do this and backbone enough to stick to it the South will no longer be the BEGGAR SEC-TION of the country and the farmer will no longer be the GOAT for the stock exchanges.

If you are interested in this, the more letters you will write to other banks in the cotton belt, the sooner we will get them interested.

If you have any criticism, give it to me straight from the

Yours truly, J. S. WITTMEIER.

The bankers in the South who lend money to cotton growers who do not raise their own foodstuffs are more responsible for the poverty of these cotton growers than are the growers themselves. They have encouraged a false system of business. They have encouraged the supply merchants to buy feedstuffs and foodstuffs in the West and sell them to cotton growers on credit, often at exorbitant prices as compared with cash prices. The "grub stake" bankers, as Mr. Wittmeier calls them, have been responsible for the continuation of this false system of business. It has impoverished thousands of tenant and small cotton growers, and through their impoverishment it has held back the development of the South as compared with what this section should have accomplished.

If every bank in the cotton growing regions of the South would take the exact position outlined in this letter of Mr. Wittmeier we would soon have a very radical change in the financial condition of the cotton growing people, and this section, then no longer dependent upon other sections for all of its feedstuffs and foodstuffs, would keep at home the hundreds of millions of dollars sent elsewhere.

THE SOUTH SHOULD KNOW ITSELF.

IN A recent editorial in this paper under the heading "... Know Thyself' Should Be the South's Motto", attention was called to the fact that a very large proportion of the teachers in the colleges and universities of the South have comparatively little real knowledge about the South and emphasis was laid upon the importance of the rising generation and of every school in the South being taught to know the South.

Commenting on this, the Asheville Citizen said:

"There you have the living gospel of an advancing and

conquering South. It is not enough for a Southerner to say that the South's advantages and resources are 'greater than those of any other part of the world.' It is necessary for him to know what those advantages and resources are, where they are, how they are estimated in dollars, yards, feet, miles and other statistics. The constant recital of them will do two things: it will inspire every Southerner to take a greater advantage of them; it will attract into the South more enterprise and more capital.

"The young man who knows the South will not take his talents and energy into another section of the country. Moreover, through his knowledge of the South and the enthusiasm thus created, he will always be able to enlist capital for the furtherance of his life's ambitions in the South. Know the South, and you have in your head the map of achievement. Know the South, and you are incessantly inspired to be worthy of the South. And the teacher or professor who puts this knowledge into the young man and young woman does for the South a work whose value passes that of gold mines."

The statements made in the editorial and in the comments of the Asheville Citizen find apt illustration in some letters which we have received within the last few days. A prominent business man in the South writes us: "The teachers of our children know less about the state as it really is than almost anybody engaged in any other profession. I dined a few days ago with a number of teachers in city schools and was astonished to find the lack of interest when the conversation was directed along the line of the resources of the state in connection with the facts given in the Blue Book of Southern Progress. I see no other way than by personal work here and there to get a teacher interested in each of the schools and gradually work the whole teaching force into sympathy with the idea."

Another letter contained a copy of one addressed to Southern teachers, seeking to impress upon them the impertance of knowing the South in order that they may be able to teach it to their students. One business man has become so imbued with the idea of having the schools in his neighborhood and indeed in his state take an active part in making known to the scholars the facts in regard to their state, that he has made a personal campaign by correspondence on his own initiative and at his own expense with a number of educators throughout the state, urging them to buy the Blue Book of Southern Progress and have the facts which are to be found in it available to the teachers and the children and effectively taught to all the children that they may gain a broader knowledge of what their state and the whole South is doing. He has already interested a large number of the teachers of his state and placed with these institutions a good many copies, in some cases as high as ten to fifteen for use in the public schools as well as in the private academies and colleges. How many others will fellow these good examples?

TENNESSEE WILL SEEK TO LEAD AT SOUTH-ERN EXPOSITION.

THOS. W. FLETCHER, industrial secretary. Chamber of Commerce, Nashville, Tenn., in a letter to the Manufac-TURERS RECORD, Says:

"As far as Tennessee is concerned we are sure that the Southern Exposition will be a success. We understand this is the spirit among the other states that have today signified their intention of participating. The Tennessee Electric Power Company has agreed to take 500 square feet of space for its exhibit of the power resources of Tennessee. The Old Hickory development in collaboration with the new Du Pont artificial silk development will be represented, and we feel certain that the Tennessee Central Railroad and the Nashville, Chattanooga & St. Louis Railroad will join in, particularly if the important roads in the South do likewise."

SURRENDER AFTER SURRENDER WEAKENS THE EMPLOYERS.

A CCORDING to advices from the coal fields of West Virginia, the union miners of that section have sacrificed the substance of well-paid work for the shadow of wartime wages, which many operators are unable to pay. They won the Jacksonville agreement, but they have lost employment under that wage scale and their victory is Dead Sea fruit.

In general, the tendency among men conversant with the exorbitant demands and domineering attitude of organized labor is to place the entire blame for industrial and mining conditions on the labor group, or at least its leaders, and to regard the employers somewhat as "martyrs" or "victims." Mayhap not enough stress is laid on the supineness of some employing elements in yielding to the demands of organized labor, instead of standing firm and united against them and at least compelling a fair and equitable compromise.

Time after time one sees employers, individually or in groups, surrendering to organized labor, even in disputes based on the most trivial grounds. In the World War the miners of the Pennsylvania anthracite fields went to Washington and arranged a new schedule with the operators involving a substantial raise in pay. An agreement was signed, good to April 1, 1920, and the president of Union No. 1, at Scranton, and other leaders declared themselves to be satisfied. Two or three months later they were back in Washington, demanding another increase. "Others are getting it, so why shouldn't we?" was their argument. At first Fuel Commissioner Garfield declined to listen to them, but eventually, on request of Secretary of Labor Wilson, he did so and called in the operators, and in the end another advance was granted.

As long as employers surrender, almost unconditionally, to every demand of labor of an unreasonable nature they not only have no just cause for complaint, but also may be blamed by the people for their full share in increased costs which ultimately are passed on to the consumer.

THE OLD SCHOOL ARITHMETIC IS NEEDED.

Of the prevalent evils of the time, hardly any is worse than deception of the people, either deliberate or inadvertent. Deliberate deception comes very near treason; there can be no excuse for inadvertent deception, with innumerable sources of authoritative information obtainable on every hand.

In a quotation from the Dearborn Independent it is stated that a thirty-year bond issue of \$500,000 at 5 per cent would require \$25,000 a year for interest and \$16,700 for the payment of the principal, or a total of \$1,250,000. Persons read such statements with superficial interest and accept them as accurate, and often bitter criticism and public restlessness develop at a time when truth and calmness are needed above all things.

As a matter of fact, as the average high school pupil could figure, the aggregate named is about 40 per cent too high. The facts: The requirement for payment of the principal of \$500,000 in 30 years would be approximately \$16,700 a year. The annual interest charge would start at \$25,000 and would decrease progressively, until the final year would show only \$835. The total of the annual charges for principal and interest would be only \$875,000, instead of \$1,250,000.

Undoubtedly, the mathematician of the Dearborn Independent figured thoughtlessly; no economic authority would put out such figures after deliberate calculation. The error is a sign of deterioration in newspaper statements, in which one frequently may read that an article has been reduced in price from \$1 to 50 cents, "or, 100 per cent." The old school at i hmetic should be dusted off.

THE WONDERS OF CHEMISTRY.

PROBABLY no more interesting and informative revelation of the wonders which chemistry is achieving in the prolongation of human life and in increasing the efficiency and productivity of industry through curtailment of waste has been written to date than an article by D. H. Killeffer, in another part of this issue. Mr. Killeffer is associate editor of Industrial and Engineering Chemistry, and took a prominent part in the proceedings of the American Chemical Society at its recent meeting. Steps for the prevention and cure of disease, always a "human interest" topic, are described in non-technical fashion, and other ambitions and advances of chemistry are treated in the same appealing manner.

THE SOUTHERN COTTON GROWER MUST PROVE THAT HE IS MASTER OF THE SITUATION.

ANIEL J. SULLY, the friend of the cotton grower and the man whose fight for better prices for cotton was lost only because the combined cotton bear gamblers of the world and the cotton manufacturers of Europe united against him in order to crush him financially, writing from Los Angeles, Cal., under date of April 15 to the MANUFACTURERS RECORD said:

"I have just finished reading your article in the Manufacturers Record of April 10 and never have I longed more for power to express myself in words, as I do now, of my great conviction that you are absolutely correct in your statement that the only way the cotton farmer of the South 'can meet the venomous spirit of hostility for a living price for his product, cotton, is to reduce his acreage.'

"My fight was a glorious one; my defeat was, in fact, a great victory, for it proved to the cotton farmer that his product, cotton, was, in fact, one of the world's greatest needs, and that so long as he did not himself master the situation he would always be at the mercy of his vicious enemies.

"My endeavors, my only solicitude, were for those people who were fighting for the right to live, the right to enjoy from the fruits of their labor prosperity and happiness, for those people who had fought for years against the greatest obstacles that any human beings have ever fought, and during this damnable punishment they were giving to the world the product, cotton, which has given to the world its freedom, its civilization, and without which today we would be in a chaos of unenlightened savagery.

"They, the cotton farmers, are still fighting and they have got to fight with all their energy, with all of their resources, combine and restrict by any legitimate means that their brains, their intelligence will indicate as the proper proceedure.

"'Hell and Maria' Dawes has proven to the world what determination and brains can do.

"'Hell and Maria' Dawes has created a factor that will make every spindle in America and the world run at its fastest for every hour that the sun shines and every moment that the moon emits light, for those spindles cannot run a second prosperously without cotton.

"The cotton farmer must now prove to himself and then prove to the world that he is master of the situation and that his brain, his brawn, his muscle and his human body are equal to and deserving of all the blessings of this life. His power, his product, cotton, must now and hereafter be considered and its value determined on the basis of the world's needs and the enormous value which it gives to every phase of human and industrial life.

"Let his determination be not quantity but quality, quality of product, last and all the time, the determination

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to exterminate the boll weevil, for quality can be procured and the boll weevil must be exterminated.

"Defeated, yes, but not dead, my brain when it takes into consideration cotton was and is a human radio. I have never ceased fighting for the cotton farmers and for their cause and I never will, and I will not die until they have won the greatest and most lasting victory that any human beings have ever won."

IMMIGRATION AND THE LEAGUE OF NATIONS.

WHEN the Senate passed the bill for the exclusion of Japanese there was an immediate suggestion both in Japan and in European papers that the subject should be referred to the League of Nations, and if we had been members of the League of Nations it is certain that Japan would have demanded that the League should settle the problem as to whether this country could exclude Japanese or not.

It matters not that we claim immigration to be a domestic problem. In one sense it is, but in another it is not. It is a problem which affects other countries in some respects almost as vitally as it affects this country, and any member of the League of Nations could assume the right to go before the League and protest that any exclusion of their citizens by the United States was a matter which concerned the League, and all the rules and regulations and covenants which might be written into the League of Nations could not prevent a discussion of this question coming before the League if the United States were a member of that organization.

SUMMARY OF THE FORD SCHEME.

PROBABLY not one person in a thousand in the United States has any idea of the terms of which Henry Ford asks the people to turn over to him the great plant at Muscle Shoals. Ford's plan may be summarized as follows:

Ford offers \$5,000,000 in installments for property which already has cost the Government—that is, the people—approximately \$100,000,000.

Ford offers to pay 4 per cent on approximately \$68,000,000 of capital which he proposes the Government—that is, the people—shall further expend on the plant.

Ford offers to pay for "amortization" and upkeep of two dams a sum less by \$150,000 a year than the Government—that is, the people—will have to spend annually on repairs.

Ford insists on immunity from the Federal Power Act of 1920.

Ford declines to submit to regulation of prices for power not used for making fertilizer, a regulation to which all other public service organizations are compelled to submit.

Ford says he will make fertilizer with an annual nitrogen content of not less than 40,000 tons a year, at a profit of 8 per cent to himself.

Ford does not promise to put a definite amount of money into the fertilizer plant, or to continue to operate it if he cannot make it pay.

Ford wants the two nitrate plants and a new steam power plant to be built at a cost of about \$3,500,000 in fee simple and a 100-year lease on the Government's two dams.

Ford demands a contract for 100 years, with preference to his interests for renewal of such contract.

Ford refuses to consider any modification whatever of his plans, and demands that they be accepted exactly as he dictates them.

The moment such a contract was given him it would be worth hundreds of millions of dollars and as a free gift from the American people.

Western Carolina as an Inspiration to All the South.

[Asheville Citizen.]

The Blue Book of Southern Progress of 1924, published by the Manufacturers Record, will soon be off the press. It is a volume which should be read from cover to cover by every business man, school teacher, college professor, journalist, lawyer and preacher in the South. Its opening chapter offers a remarkable compendium of statements from men of other sections of the country regarding the resources and potentialities of the South. Its second chapter gives in comprehensive form a survey of what the South has already achieved. By reading the entire book the Southerner gets a picture of every phase of the business activities of his home land. Not a dry and dusty enumeration of facts and figures, but a story which, dealing with facts and statistics, grips the imagination, challenges credulity and inspires ambition.

In the first chapter is this quotation from the Hon. W. D. Kelley, many years ago known as "the Father of the House of Representatives," as follows: "It is the most glorious land upon which my feet or eyes have ever rested. It is to be the coming El Dorado of American adventure."

We who live in Western North Carolina know the true meaning of that "El Dorado of American adventure." El Dorado was the name given by the Sixteenth Century Spaniards to an undiscovered region in South America believed to abound in gold. We Western North Carolinians within the last fifteen years have proved that in our valleys and on our mountain tops lies El Dorado. We have felt and reacted to the spirit of adventure which transformed tree, stream, field and the very rays of the sun itself into gold. We have become adventurers with capital. We have seen outsiders rally to us to share in our adventuring. With enterprise, vision, courage and money we have put through adventure after adventure and made the ventures turn out to be solid business and splendid success.

No Southerner can surpass us in reading the 1924 Blue Book of Southern Progress with appreciation. We know from experience that no tale of treasure trove and no story of triumphant search for great wealth in the bosom of the earth or the blossom of a plant can seem to us impossible. Western North Carolina is the home of miracles in agriculture and wonders in industry. What Western North Carolinians have done is a part of the Blue Book. We are in more ways than one an inspiration to all the South. We are in the vanguard of the South's onward march. The Blue Book should be on the library table of each one of us.

Wealth of the World.

The aggregate pre-war wealth of the twenty-odd nations actively engaged in the great war, according to an estimate just completed by the Research Department of the Bankers' Trust Company of New York, amounted to \$630,000,000,000. The wealth of these same nations today is estimated to be about \$619,000,000,000. The pre-war wealth of the British Empire—that is, of Great Britain, the Dominions, India and the Crown Colonies—was approximately \$140,000,000,000, while today the wealth of this same group of nations is estimated by the Bankers' Trust Company to be around \$149,000,-000,000. The wealth of France before the war is placed at just under \$60,000,000,000, and is estimated to be approximately the same today. The pre-war wealth of the United States is placed at \$200,000,000,000 and the wealth today at \$230,000,000,000, while the pre-war wealth of Germany is estimated to have been upwards of \$80,000,000,000 and today to be about \$55,000,000,000. These figures are all on the gold pre-war basis of values, having been adjusted for inflation.

The per capita wealth of Great Britain today is placed at \$1489 and of the different nations composing the British Empire at \$418, including the wealth and population of India, or \$1046 excluding the wealth and population of India. The wealth of France is estimated in 1913 dollars to be \$1484 per capita and of the United States \$2090 per capita. The wealth of Germany is placed at \$901 per capita. The Bankers' Trust Company points out that the total wealth of the former belligerents has not materially changed as a result of the war, but that there has been a marked redistribution of such wealth, this redistribution having taken place not only as between nations but also as between the peoples within the boundaries of each nation.

Chemical Research Works Wonders in Waste Elimination.

CIVILIZATION ADVANCING BY SCIENTIFIC ACHIEVEMENT IN PREVENTION AND CURE OF DISEASE AND THROUGH INCREASED EFFICIENCY AND PRODUCTIVITY IN INDUSTRY.

By D. H. KILLEFFER, Associate Editor, Industrial and Engineering Chemistry.

Chemistry prolonging life through ceaseless search for remedial agents in the fight against disease and increasing the efficiency and productivity of industry through constant war against waste forms the basis of the picture which every thoughtful man must have carried away from the sixtyseventh meeting of the American Chemical Society at Washington, April 21 to 26. Such a gathering of some 2000 of the leaders of chemical science would hardly have attracted passing notice from the general public 20 years ago, or even less; but so great has been the progress of this science within recent years, and so great, too, has been progress in its application to the everyday problems of humanity, that such an occurence can no longer be dismissed by the "man in the street" with a shrug of the shoulders. We have been accustomed by long years of careful instruction by the representatives of the German Empire to think of things chemical and thoughts chemical as being the God-given natural monopoly of the German people, yet we must now recognize that as merely another of the shattered idols of the past. We must realize, too, that not only has this idol been shattered but that actually Europe is already turning to America for leadership in many lines of scientific endeavor. All of these thoughts must come to one who contemplates the largest gathering of chemists which ever came together in our country, meeting under the banner of the largest organization of chemists in the world.

When some historian in the distant future considers our present age with its immense industries, he must of necessity see that the fundamental laws which have dominated this particular period of the progress of civilization are not manmade laws but are the two great natural laws of the conservation of matter and of energy. These two laws are the watchwords of the chemical science in its war against waste; for, liberally interpreted, they state that waste is merely a relative term and that wastes are such only because no proper use has been found for them. Let us for a moment look further and see how the activities of chemists based on these laws have directly affected each of us.

The phase of waste prevention in which everyone is most vitally interested is the prevention and cure of disease. Health has come to be regarded as a series of chemical reactions which are proceeding in unison. Any disturbance of this unison of the series is disease. The organs of the body become tired, perhaps, and fail to properly carry out their part in the whole. Medicine of the past prescribed entirely foreign stimulants to force the inactive organ to renewed functioning, but present tendencies are in an entirely different direction. Chemists have studied with the greatest care the parts played by each organ and its contribution to the whole. They have succeeded in some notable instances in supplying to the body those things which the organs themselves are failing to furnish, and in a most marvelous way the rest thus given the particular organ enables it later to resume its functioning. Insulin and the wonders that are being accomplished by its use in the treatment of diabetics are typical of advances which are daily being made in the study of the functions of the glands of the body. Reports of progress along similar lines to that which resulted in the production of insulin lead one to believe that not only will equally gratifying results be achieved in other cases but that it may even be possible to produce synthetically in the laboratory substances which are identical in composition and action to the natural secretions of the glands in the body. At present the attention of investigators is being devoted most largely to securing these gland secretions from other animals in such a form as to make their application to human disease pracable, but already, in the case of insulin, results of investigations still in progress seem to point strongly to the possibility of its synthesis in the not far distant future.

Still another contribution of the chemists to human health and comfort is found in the anouncement that recent experiments have opened the way to the isolation, identification and possible synthesis of the vitamins. The existence in certain foods of substances which in themselves are not foods in the sense of providing fuel to the human machine, yet whose function in assisting the body to assimilate such fuel foods, has long been known, but these vital substances have baffled all attempts to isolate them until within the past few months. However, an announcement has just been made of the isolation of the first of these from yeast, called vitamin D, or bios. The investigators who have accomplished this feat feel sure that within a short time they will be able to announce the isolation of further members of this group of substances, and they look forward with a great deal of confidence to the possibility of making them synthetically.

The possibilities opened up for the future by such accomplishments as these would stagger the imagination of a Jules Verne. A world in which diseases caused by failure of parts of the body to function properly are completely under control is more than we could possibly have hoped for a generation ago, yet now it seems within our grasp.

The fight against those diseases caused by various microorganisms is being continued at the same time with equal vigor and with equally gratifying results. The method of attack in these diseases consists in the designing of germicides which can be put into the system in such a way as to kill the undesired germs and yet which will not seriously affect the body in which the germs are lodged. Chemical compounds of the most complex structures are being built as carriers for poisons which select particular germs for attack. It has long been known that certain substances, such as mercury and arsenic, are violently poisonous, but it is only within the past few years that it has been possible to apply them to killing disease germs without at the same time killing the person in whose body they are causing trouble. Already results accomplished have been of extreme value, and one can only guess, and be awe-struck by his speculations, at what the future holds.

In industry probably the greatest single source of waste is in the handling of heat. In every industry of whatever character heating and cooling are necessary parts of the operation of plants. The production of heat and its economical utilization formed a large part of the discussion of this gathering of chemists. The problem of insulation, that is, keeping heat from wasting, and its converse, the problem of heat conduction, of applying heat to the point of use, were discussed from all angles, and ways of increasing efficiency and preventing waste were suggested.

The artificial control of the time required for the setting of cement by which it is possible to bring this about in any desired time, within limits, was discussed, along with a host of other subjects which showed as nothing else could the catholicity of the investigations which are now in progress under the watchful eye of the chemist. Developments in fuels for internal-combustion engines that will conserve our dwindling petroleum reserves by increasing the efficiency of utilization of gasoline and similar fuels, and even the possibility of the use of oils other than petroleum for the same purpose, present intensely interesting fields for speculation.

In connection with internal-combustion engines it is interesting to note the development within the past two years of a compound, tetraethyl lead, which was found to have very remarkable effects in preventing "knocking" so common to such engines when working under heavy load. Not only was "knocking" prevented by the addition of very small quantities of this material to the fuel, but it was also found possible to greatly increase the compression of engines using it and hence their efficiencies. This discovery has been commercialized and has met with such favor among automobilists that it has actually had a serious effect on the available supply of bromine and bromides for medicinal purposes, bromine being used in the preparation of tetraethyl lead.

Another serious waste which is attracting the careful attention of chemists is the checking of insect pests which annually take serious toll from the crops of our country. Not only is this problem being attacked from the point of view of preventing wastes of crops, but it has been found that many of the materials which possess desirable qualities for this use are wastes of other industries. Arsenic and arsenical compounds which are used so widely in the fight against the cotton boll weevil are made from the wastes of smelters. The nicotine compounds used in spraying fruit trees naturally are made from stems and other refuse of tobacco manufacture. The sprays based on coal tar are made from parts of the tar which are not required by the makers of dyes and medicines. Even the prussic acid which is used in killing the insects which infest grain and certain fruit trees was formerly prepared from a waste product of coal gas plants. In all of these lines rapid progress is being made toward the control of such pests.

We are all familiar with the widely advertised "Save the Surface" campaign of the paint manufacturers, yet few of us realize the immense amount of careful research on the part of chemists to make painting effective and cheap at the same time. Perhaps the most notable advance in this direction recently has been the rapid development of the so-called ester gums. It has long been realized that the use of ordinary rosin would cheapen varnishes, but it also had the very undesirable quality of refusing to mix properly with linseed oil. It was always necessary to use very expensive imported fossil resins-copal, etc.-with linseed oil to make satisfactory varnishes. (It must be remembered that varnish is very often used instead of oil in the manufacture of paint.) However, recent investigations have resulted in the manufacture from rosin of the ester gums suitable for use in linseed oil varnishes in such a way as to replace part of the more expensive copals and give very satisfactory results. These have been commercialized to some extent, but investigation is being continued to improve the results already obtained.

Even the art of tanning skins and making leather, probably the earliest art in which pre-historic man engaged. has profited by the investigations of the chemists. So gradually has this been accomplished that we have been hardly conscious of the changes as they have been brought about; but if one visits a museum where the shoes of some notable of a century ago are to be seen and compares them with our present-day footwear, the difference is immediately apparent. Leather today is soft and pliable. Our shoes do not become loose and flabby when they are wet or tight and hard when they are dry as did the shoes of a generation ago. Yet chemists have only begun to investigate thoroughly the field of tanning.

The introduction of artificial leather has had much to do with the comfort of our present-day shoes. The choice skins which formerly were saved for the use of the upholsterer and the bookbinder have thus been released by the chemist for use in shoe manufacture, for which unfortunately the chemist's product is not so well suited. Sole leather, which has always been much used for belting as well as shoes, is finding its two fields seriously invaded by specially prepared compositions of rubber and fiber. New methods of tanning, unknown two decades ago, are making possible the production of leather of particular qualities for a variety of uses which were out of the question before the introduction of these methods.

The effect of light in promoting the growth of living matter has long been recognized, but the question of how it acts is still the subject of serious investigation among chemists. Aside from this, everyone recognizes that light will cause some dyes to fade and that photography is essentially based upon the action of light, but there are many things about even these two things which are not known. These are being carefully and thoroughly investigated.

The meeting of this army of chemists in Washington emphasized as nothing else could the immense amount of scientific work which is being done for us by our own Government. The Department of Agriculture, the Department of Commerce. the Department of the Interior and the Department of the Treasury all have in their various bureaus scientific men actively working upon just such problems as those we have discussed for the benefit of our entire country. The patient. painstaking studies of these men have resulted in untold benefit to each of us. A mere naming of the bureaus-the Bureaus of Agricultural Economics, Animal Husbandry. Chemistry, Home Economics, Plant Industry, Public Roads. Soils, Standards, and Mines-and mention of the Fixed Nitrogen Research Laboratory, the Geological Survey and the Public Health Service immediate call to mind the many accomplishments of each of the first magnitude. ť

The peace-time activities of the Chemical Warfare Servicewhich we all hope will have no further call for war time activity-are also along the lines of conservation of which we have been thinking. There have been developed gas masks, based on the same principles as those used in war, which protect the wearer against all manner of industrial poisons which are met in the complicated industrial structure of our country. Firemen, fighting the most dangerous of fires, need no longer be exposed to stifling gases and poisonous fumes. Miners can go through the worst areas of the worst mines without fear of being overcome. Workers in dangerous materials can protect themselves from all dangers to their health from fumes. These things are the direct result of an effort to guard ourselves against another such attack as that of the Germans upon the Canadians back in 1915, yet they have resulted in the saving of thousands of lives of persons engaged in ordinary walks of life.

Another measure of conservation which the Chemical Warfare Service has developed and which is finding wide use is the manufacture of a non-poisonous tear gas. This gas has the very remarkable property of coaxing rivers of tears from the sternest individual without otherwise harming him, and it has sounded the knell of strong-arm methods in dispersing mobs of whatever kind. However blind with fury a mob may be, the blindness which comes from a copious flow of tears is much more serious and insistent. The burning sensation of the eyes which accompanies the tears demands immediate attention and will not be denied. Thus while each member of a mob is bent on relieving his own particular discomfort. the main object is lost to view without the necessity of using firearms or bayonet charges to overcome them. When it is considered that no permanent injury can result from such methods, the saving of human life in dispersing mobs becomes considerable. This method has been adopted by police departua of co: \$20 ure ua 500

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ments throughout the country and we shall soon cease to read in glaring headlines that "Thirty Lose Lives in Riot."

Thus it is evident that our civilization is advancing not by the uncertain method of conquest and tribute, but by the surer and more permanent building of scientific achievement. In the words of President Coolidge, addressed to members of the American Chemical Society assembled on the White House lawn, "Our material progress depends upon the acquisition of knowledge, and upon the wise and beneficial use of knowledge depends our permanent progress and prosperity."

Over \$104,000,000 in Public Improvement Bonds Sold by Sixteen Southern States in Four Months This Year.

Bonds sold for public improvements in the South for January, February, March and April of this year reach a total of \$104,425,869, as compared with sales of \$84,280,908 for the corresponding period of 1923. The total for last month is \$26,320,000, compared with \$25,400,000 for April, 1923. Figures for the first three months of 1924 are as follows: January, \$34,058,765; February, \$16,760,036; and March, \$27,283,500.

The figures in the summaries herewith are compiled from items published in the DAILY BULLETIN and the financial news columns of the MANUFACTURERS RECORD during the first four months of the year, and each individual bond issue represents some important public improvement undertaken by a Southern district, county, town, city or state.

In the number of issues marketed and the amount of money involved Texas holds first place for the four-month period with a total of \$18,918,000 for 78 separate issues sold for all purposes. Missouri comes second with \$12,528,500, and North Carolina is third with sales totaling \$10.081,000.

Bond issues marketed for miscellaneous improvements hold first place in the classification, sales totaling \$41,595,000. Road bonds come second with a total of \$33,544,000, and bonds for sewers, water works, drainage and irrigation are next with a total of \$16,606,000.

The tables herewith give a summary of the various issues sold in the different states, by classification, and for the months from January to April, inclusive of this year.

SUMMARY	BY	CLASSIFICATION	FOR	FIRST	FOUR	MONTHS	OF	1924.
CO CONTRACTOR A	** *	C RANKED COME ME CHARACTER	* () **	A. A. A. A. C. C. A.				

	C C MANAGEM		SOAT ME WILLIAM	* () ** * * *					
	Roads		Schools		Sewers	M	iscellaneous		Total Value
Alabama 8	\$7.845,500	3	\$800,000			-5	\$1.441,000	16	\$10,086,500
Arkansas 6	1,347,500	2	355,000	6	\$397,000	2	650,000	16	2,749,500
Florida 12	2,995,000	10	1.067,000	4	841,000	19	3,152,500	45	8,055,500
Georgia 6	485,500	4	205,000	4	113,000	3	3,809,000	17	4,612,500
Kentucky 2	240,000	1	125,000	1	100,000			4	465,000
Louisiana 7	1,775,000	4	1,385,000	2	1,040,000	. 2	3,200,000	15	7,400,000
Maryland		1	75,000	1	500,000	3	880,000	5	1,455,000
Mississippi 7	717,000	2	560,000	6	3.259,750	6	1.265,000	21	5,801,750
Missouri		15	3,167,000	13	3.979,500	5	5,382,000	33	12,528,500
North Carolina 14	1.439,000	21	1,753,286	7	386,000	11	6,503,000	53	10,081,286
Oklahoma 3	1,200,000	2	131,000	2	875,000	1	83,000	8	2.289,000
South Carolina 12	1.910,000	2	91,500	13	645,000	2	3,065,000	22	5,711,500
Tennessee 10	911.347	1	50,000	.5	464,000	6	3,689,000	22	5,114,347
Texas 32	7,787,486	24	1,905,000	11	2,711.000	11	6.515,000	78	18,918,486
Virginia 2	500,000	4	470,000	5	1,145,000	3	1,651,000	18	3,766,000
West Virginia 7	4.391,000	3	540,000	1	150,000	~	310,000	13	5,391,000
Totals128	\$33,544,333	99	\$12,679,786	74	\$16,606,250	85	\$41,595,500	386	\$104,425,869
		Totals by	Months from	January	to April, Inclu	isive.			
January 44	\$14,327,265	30	\$4,706,500	24	\$4,824,000	25	\$10,201,000	123	\$34,058,765
February 19	3,259,000	21	2,425,286	21	4.086,750	17	6.989,000	78	16,760,036
March 27	9,783,500	17	2,658,000	14	3,397,500	99	11,444,500	80	27,283,500
April 29	6 174 569	21	2 800 000	15	4 208 000	91	12 961 000	105	26.323.568

\$2,000,000 Addition for Jefferson Hotel, St. Louis— Thirteen-Story Building to Adjoin Present Structure.

St. Louis, Mo.—Plans are being prepared by T. P. Barnett & Co. of this city for a \$2,000,000 thirteen-story addition to the Jefferson Hotel here. The building will be erected adjoining the present structure and will be of reinforced concrete. It will provide 400 additional rooms, bringing the total number of rooms in the Jefferson to 1000. The lobby will extend from 12th boulevard to 13th street and practically all rooms in the addition will face the park in the rear of the Public Library.

It is stated that financial details for the construction of the addition have been made with Stifel, Nicolaus & Co., bankers, of this city, who will handle a \$3,200,000 bond issue of the Hotel Jefferson Company, owner of the hotel.

\$1,000,000 Professional Building Plan in Baltimore.

Plans are being promoted by Alfred Frank Olson, Munsey Building, Baltimore, for the erection of a \$1,000,000 professional building at Cathedral and Richmond streets, this city. The building will be eight stories and basement, with a two-story tower, and will contain 250 office suites. Space will be provided on the first floor for a bank and a drug store.

The structure will be L shaped, of gray brick and Bedford stone with terra cotta trimming. It will be erected, it is said, by a syndicate of physicians and surgeons, the company to be known as the Physicians and Surgeons' Building, Inc. Parker, Thomas & Rice of Baltimore are the architects. and it is stated that J. Henry Miller, Inc., also of Baltimore, will be the general contractor.

Missouri to Issue \$3,600,000 Soldier Bonus Bonds.

Jefferson City, Mo.—The sale and issuance of \$3,600,000 of bonds to pay 25,000 unpaid Missouri soldier bonus claims has been authorized by the state board of fund commissioners. This sale of bonds is in accordance with a constitutional amendment recently ratified, which provides an issuance of \$4,600,000 of bonds in addition to \$15,000,000 previously issued. It is understood that \$3,600,000 will be sufficient to pay outstanding claims.

The bonds are to be sold on May 15, subject to delivery on or before July 1. They are to be dated June 1, 1924, and will be payable, serially, in from one to twenty years.

\$1,300,000 Ten-Story Building for Birmingham.

Birmingham, Ala.—Plans have been prepared and ground will be broken about June 1 for the proposed building at Third avenue and Twenty-Third street here, which is to be erected by the Third Avenue Building Co. at a cost of \$1,300,000. The building will be fireproof, or reinforced concrete construction, space being provided on the first floor and a portion of the ground floor for stores and shops.

Four blocks above the first, will be leased to the Birmingham Athletic Club, it is said, while the six upper stories will be devoted to bachelor apartments.

The World Power Conference at London and Its World Wide Importance.

Important benefits for the United States and the world may be expected to develop from a World Power Conference to be held in London June 30 to July 12, in which this country will be represented by American leaders in power circles of every kind. The conference is planned for the purpose of considering how power resources can best be developed and utilized, of exchanging views on technical questions of design and operation, and of discussing the economic, legal and social questions connected with power development and use-in short, for practical, businesslike discussion of every phase of the power question.

As a part of its contribution to the conference, the American committee has arranged for the preparation and presentation of thirty-seven papers, covering the general range of topics to be discussed. These papers will be presented by synopses only, each session being devoted to oral discussion of the particular topic under consideration. The American committee will be composed of these groups: Individuals who have been designated by the several co-operating organizations to represent them in the formation of the committee; individuals of prominence in the fields of power development, operation, technology and finance who have been, or may be, invited to membership by the executive council; individuals of eminence in science or industry who, at the request of the executive committee, have consented to serve as honorary members or honorary officers.

Space for the American travelers has been reserved on the steamship Seythia, sailing from New York June 19, and from Boston June 20, and due to arrive at Liverpool on Saturday, June 28. The conference will open in the afternoon of Monday, June 30, with a reception, followed by a banquet in the evening, given by the British committee.

This will be the most remarkable gathering of men of influence in relation to power, upon which all material advancement must depend, that the world has ever had. The list of speakers and their subjects is in itself an indication of the world-wide influence which this convention will have. A study of that list is of interest. "It is as follows:

AUSTRALIAN COMMONWEALTH.

Sec. A-"The Power Resources of Australia."

AUSTRALIAN COMMONWEALTH.

Sec. A—"The Power Resources of Australia."

Papers Arranged to Date.

Sec. A—"The Development and Utilization of Water Power in Austria." Bundesministerium für Handel und Verkehr. "The Coal Resources of Austria," Bundesministerium für Handel und Verkehr. "The Utilization of the Power Resources of Austria, with special reference to the Consumption of Electric Power." Direktor Ing. Eugene Karel. "The Electrification of the Austrian Federal Railways." Ministerialrat Dr. Ing. Arthur Hruschka.

Sec. B—"Recent Practice in Civil Engineering with reference to Water Power Production." Oberbaurat Ing. Karl Innerebner. "Progress in Mechanical Engineering, with reference to Power Production." Verband der Deutsch-Oesterr. Maschinenindustrie.

Sec. C—"Complete Gasification of Coal." Prof. Dr. Hugo Strache. "Testing Department for Fuels, Technical College, Vienna." Prof. Dr. Hugo Strache. "Heat Economy in Austria." Gesellschaft für Wärmewirtschaft, Vienna.

Sec. D—"The Reciprocal Utilization of Waste Energy." Oberbaurat Ing. Bernhard Moritz Gerbel, Vizeprasident der Ingenicurkammer. Sec. G—"Modern Practice in Power Transmission and Distribution in Austria." Direktor Ing. Ludwig Kallir.

Sec. J—"The Austrian Electro-Chemical Industry, with an Appendix upon the new Institute for Technical Electro-Chemistry at the Technical College, Vienna." Prof. Dr. Heinrich Paweck.

Sec. N—"The Influence of Large Water Power Installations on the Regime of Flow." Prof. Dr. Ing. Freidrich Schaffernak. "Divining Measurements by means of the Torsion Balance in Austria." Hofrat Prof. Dr. Richard Schumann. "Electro-Aeronautic Research Work." Generaldirektor Ing. Oskar Taussig. "Health Conditions and Welfare Work in Austria." Sektionsrat Dr. Ernst Brezina and Ministerialrat Dr. Mumelter. "International Co-operation in Technical Work." Ing. Dr. Wilhelm Exner. "Austrian Laboratories für Technical Research and the Testing of Materials." Technisches Versuchsamt im Bundesministerium für Handel und Verkehr. "Rivers as Factors of

BELGIUM. Papers Arranged to Date.

Sec. A—"Ressources en Energie que renferment les Gites de Combustibles Minéraux de la Belgique." A. Renier. "Production

et Consommation d'Energie en Belgique—Bilan calorifique du pays."
M. Delmer. "Organisation des Cours d'Eau en Belgique pour la
Navigation et la Production d'Energie." Lieutenant-Colonel Fon-

"Production et Distribution de l'Energie Electrique en M. Moreau. Belgique."

BRITISH GUIANA.

Sec. A-"The Water Power Resources of British Guiana."

DOMINION OF CANADA.

Papers Arranged to Date.

Sec. A—"National Review of the Power Situation in Canada."

J. B. Challies.
Sec. B—"Water Power Production." H. G. Acres.
Sec. D—"Carbo-Power Production." B. F. Haanel.
Sec. G—"Power Transmission and Distribution." Julian C. Smith.
Sec. H—"Utilization of Power." P. T. Davies.

CZECHOSLOVAKIA.

Sec. A—"Review of the Natural Sources of Energy and their Use in Czechoslovakia."

DENMARK.

Papers Arranged to Date.

Sec. A-"The Water Power Resources of Denmark." A. Carsten-

sen.
Sec. F—"Utilization of Wind Power in Denmark." (a) "Meteorological data." Prof. E. Schou. (b) "Modern types of Wind Mills."
P. Vinding.
Sec. G—"Transmission of Power from Norway to Denmark." A.
R. Angelo and Prof. Wm. Rung.
Sec. H—"Technical Development and Financial Organization, including Co-operative Schemes for Electricity Supply in Denmark."
F. H. Krebs. "Technical Development of Low Tension Distribution Lines and the Execution of House Installations." V. Faaborg Andersen.

DUTCH EAST INDIES.

Papers Arranged to Date.

-"The Water Power Resources of the Dutch East Indies." hoff. "Fuel Power in the Dutch East Indies." G. J. L.

Sec. A—"The Water Power Resources of the Dutch East Indies."
A. Groothoff. "Fuel Power in the Dutch East Indies." G. J. L. Coninck Westenberg.
Sec. B—"General Principles and Conditions of Water Power Production in the Dutch East Indies." Prof. J. N. Van der Ley.
"Special Conditions of Civil Engineering Features of Water Power Development in the Dutch East Indies." W. Blaser.
Sec. G—"General Principles of Power Transmission in the Dutch East Indies; Interlinking of Power Stations." Prof. J. N. Van der Ley. "High Tension Transmission Lines in the Dutch East Indies." W. Nobel. Ley. "High Tension Transmission."
W. Nobel.
Sec. K—"Electrification of Railways in the Dutch East Indies."

Sec. K—"Electrification of Railways in the Lucus."

Dr. G. De Gelder.
Sec. M—"Legislation for Electricity Supply in New Countries."

Prof. J. N. Van der Ley.
Sec. N—"Electrical Standardization in the Dutch East Indies."

FINLAND.

Sec. A-"The Power Resources of Finland."

FRANCE.

Papers Arranged to Date,

Sec. A—"Inventaire des Resources Hydrauliques de la France."
M. de la Brosse. "Régularisation des Cours d'Eau." M. Genissieu.
"Electrification du Bassin Houiller du Pas-de-Calais." "Electrification d'une Houillère Moderne." "Inventaire des Ressources
Houillères existant en France." M. Guillaume. "Production d'Energle Electrique par l'Utilisation des Gaz de Hauts-Fourneaux et de
Fours a Coke." M. Cornu-Thénard.

Sec. G—"Lignes Electriques de Jonction." M. Maroger. "Les
Grandes Lignes de Transmission d'Energie Electrique à Très Haute
Tension en France." M. J. Tribot Laspiére.

Sec. M—"Législation des Forces Hydrauliques en France," M.
Arbelot.

GREAT BRITAIN.

Papers Arranged to Date.

Sec. A—"The Coal Resources of the World." Sir Richard Redmayne. "The Physical and Chemical Survey of the National Coal Resources of Great Britain." Dr. C. H. Lander. "Oil Production in its Relation to the Resources and Needs of the British Empire." Sir George Beilby. "A Review of the Water Power Problem in Great Britain and Ireland." Prof. A. H. Gibson. "The National Development of the Water Power Resources of Scotland, and its Relation to Imperial Power Problems." Dr. J. F. Crowley and Eric M. Bergstrom.

Relation to Imperial Power Problems." Dr. J. F. Crowley and Eric M. Bergstrom.

Sec. B—"Problems Relating to Run-Off, Storage, and the Allocation of Catchment Areas in Great Britain and Ireland." W. J. E. Binnie. "Factors of Efficiency in Hydro-Electric Development." Col. C. M. Norrie.

Sec. C—"The Winning and Utilization of Peat." Prof. Pierce F. Purcell. "The Combustion of Powdered Coal in Cement Rotary Kilns." Dr. C. Martin. "The By-Products of Coal Distillation in Relation to Power Production." W. G. Adam. "Coal Irreatment and Carbonization, with Special Reference to Low Temperature Methods." Prof. H. E. Armstrong. "The National Economic Power of Solid Fuel in Relation to its Scientific Utilization, with Special Reference to Fuel in Pulverized Form." Leonard C. Harvey.

Sec. D—"Steam Generation." Sir James Kemnal. "Steam Turbines." The Hon. Sir Charles Parsons.

Sec. D—"The Measurement of High Temperature and its Importance in Fuel Economy." Sir Robert Hadfield, Bart. "Coke for

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Steam Raising." E. W. Nicol. "Fuel Conservation and Smoke Abatement." F. W. Goodenough.

See. E.—"Internal Combustion Engines."
"Gaseous Explosions." Prof. R. V. Wheeler.
as applied to Large Scale Power Generation." A. H. Lymn. "The Gas Producer as applied to Large Scale Power Generation." A. H. Lymn. "The Gas Producer Control of the Control of the Control of the Control of the Control of Cont

HOLLAND.

Papers Arranged to Date.

Papers Arranged to Date.

Sec. A—"Power Resources of the Netherlands," Prof. Ir. F. K.
Th. Van Iterson.

Sec. C—"Oil-refining." C. J. M. Milo.
Sec. D—"Steam Turbines for High Pressures." C. F. Stork.
Sec. G—"Application of Squirrel Cage Induction Motors, with
Special Starting Characteristics." A. Brunt. "Iron Clad Switchgear." H. A. Hidde Nijland. "Recent Developments in Power
Station Design in the Netherlands." J. J. L. Smits. "The Electrification of the Netherlands." F. A. Smit Kieine and High-Tension
Committee, Vereeniging van Directeuren van Electriciteitsbedrijven
in Nederland. in Nederland.

Nederland.

Sec. H—"Development of the Use of Electricity for Domestic Purposes." Dr. W. Lulofs.

Sec. K—"Some Considerations on Traction for Railways and Tramways." Prof. Ir. I. Franco. "General Data on the Propulsion of Ocean-Going Ships in Holland." Ir. W. J. Muller.

Sec. L—"Some Modern Points of View concerning the Construction of Electric Incandescent Lamps." Dr. Ing. N. Halbertsma.

Sec. M—"Executive and Administrative Interest by Public Authorities in the Supply of Electricity in the Netherlands." J. G. Bellaar Spruyt and E. A. Schoon.

Sec. N—"Some Notes on Power Stations running in Parallel." Ir. G. J. Th. Bakker and Ir. J. C. Van Staveren. "Considerations as to the most Economical Ratio of Increase in a Series of Standardized Main Dimensions." Dr. Ir. J. Goudriaan. "The Education of the Engineer in the Netherlands and its Colonies." Prof. L. A. Van Royen. "Psychotechnics in the Netherlands." J. L. Prak.

HUNGARY.

Sec. A-"The Power Resources of Hungary."

INDIAN EMPIRE.

Papers Arranged to Date.

Sec. A—"National Review of the Water Power Resources of the Indian Empire." J. W. Meares. "Water Storage Conditions in India." S. K. Gurtu.

ITALY.

Papers Arranged to Date.

Sec. A—"General Report on the Water Power Resources of Italy, Developed and Undeveloped (historical, economical, statistical)." Prof. G. Mortara, with the assistance of the 3rd section of the Superior Council of Public Works. "Italian Organization for Collecting Data on Water Power, with a General Review of Local Hydrological Features in Relation to Power Generation." Prof. G. De

Marchi, with the assistance of the Hydrographic Survey of the Ministry of Public Works. "The Production of Hydro-Electric Energy as a National Problem." Ing. Angelo Omodeo.

Sec. B—"Recent Developments in Dam Construction in Italy." Ing. L. Mangiagalli. "Recent Developments in Italian Water Turbines." Ing. Ucelli. "The Continuity and Regularity of Operation of Large Electric Systems." Ing. Guido Semenza. "The Coexistence of Hydro-Electric and Steam-Driven Generating Stations as affecting the Economy of Production and the Necessities of Storage and Reserve." Prof. G. Motta.

Sec. E—"Large Internal Combustion Engines." Ing. G. Tosi. "Internal Combustion Engines for Motor Transport and Aviation." Sen. G. F. Agnelli.

Sec. F—"The Larderello Natural Steam Plant." Prince Piero Ginori Conti.

Sec. G—"Recent Electrical Developments in Overhead Transmission Lines." Ing. U. Del Buono. "Recent Mechanical Developments in Overhead Transmission Overhead Transmission Lines." Prof. G. Rebora. "The Limits of Extension in the Parallel Operation of Electric Systems, with special reference to Economy and Service." Ing. R. Norsa, "Electric Cables for Extra High Tensions." Ing. L. Emanueli.

Sec. K—"Electric Traction in Italy." Prof. Ing. F. Tajani. "Electro-Metallurgy in Italy." Prof. F, Giolitti.

Sec. A-"The Power Resources of Japan."

DOMINION OF NEW ZEALAND, Sec. A—"The Water Power Resources of New Zealand."

NORWAY.

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Papers Arranged to date.

Sec. A—"Hydrography of Norway." O. Rogstad. "Water Power Resources of Norway, Developed and Undeveloped." I. Kristensen. "Cost of Developing Water Power." S. Kloumann. "The Coal Fields of Spitzbergen and Bear Island." A. Hoel.

Sec. B—"Electrical Supply of the City and Peninsula of Bergen." Asbj. Bjerke and E. Monsen. "Electrical Supply of Christiania." R. Steen. "Ice Troubles in Norwegian Rivers." A. Ruths.

Sec. G—"Determination of Efficiency and Phase Displacement in Transformers by Measurement on Open Circuit and Short Circuit." Prof. O. S. Bragstad. "The Influence of Voltage Regulation on Electricity as a Product of Quality. Proposal for International Rules of Voltage Regulation." Prof. Fr. Jacobsen.

Sec. H—"Electrical Power in Norwegian Households." J. Sandberg. "Electricity Rates in Norway." Joh. A. Haga.

Sec. J—"Nitrogen Fixation." Dr. B. F. Halvorsen.

Sec. M—"Export of Electrical Power." S. Kloumann. "Synopsis of Norwegian Water Power and Electricity Acts." H. Larsen. "The Financing of Loans for Power Development." M. Stuevold-Hansen.

Sec. N—"Proposal for Uniform Rules for Testing Water Power Plants." Prof. G. Sundby. "Desirability of Standardizing Electrical Household Appliances." H. Grosch.

POLAND.

Sec. A-"Economic Situation and Power Resources of Poland."

RUSSIA.

Papers Arranged to date.

Sec. A—"Power Resources of Russia (Coal, Naphtha, Water Power and Forests)." "Utilization of the Resources of Russia." "Production, Transmission and Distribution of Electrical Energy."

SOUTHERN RHODESIA.

Sec. A—"Review of the Water Power Resources of Southern Rhodesia." C. L. Robertson. "The Coal Resources of Southern Rhodesia." H. B. Maufe.

SPAIN.

Papers Arranged to date.

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Sec. A—"National Review of Water Power in Spain." Pedro M. González Ouiiano, "Hydraulic Regime of several Spanish Rivers." Carlos Mendoza. "Canalization and Utilization of Water Power in the Guadalquivir between Cordoba and Seville." Carlos Mendoza.

Sec. B—"Characteristics and Brief Description of the Scheme for Developing Hydraulic Power from two important groups of Waterfalls in the Basin of the Duero." José Orbegozo. "Elimination of Vegetable Matter carried in the Canal Water." Cornelio Arellano. "Elimination of Mineral Matter carried in the Canal Water." Cornelio Arellano. "Canals on Sloping Ground." Emilio Arazola. "Some Features of Modern Hydro-Electric Developments." Diego Mayoral.

Sec. G—"Network of National High-Tension Lines." Luis Sanchez

Mayoral.

Sec. G—"Network of National High-Tension Lines." Luis Sanchez Cuervo. "Description of the System of Generating, Transmitting and Distributing Electricity in Catalonia." Catalana de Gás y. Electricidad S. A. "Considerations affecting the Interconnection of Existing Transmission Systems." Claudius E. Bennett.

SWEDEN.

Papers Arranged to date.

Sec. A—"The Power Resources of Sweden." F. V. Hansen.

Sec. B—"General Conditions of Water Power Development in Sweden." A. Ekwall. "Recent Practice in Swedish Water Power Engineering." A. Westerlind. "Recent Practice in Lake Storage and what the Storage means to Water Power Utilization in Sweden." Gottfried Berg. "Measures taken in Sweden against Ice Troubles in Water Power Plant." A. Frey Samsioe. "Recent Swedish Arch Dam Design." Bo Hellstrom. "Modern Tendencies in Water-Wheel Design." Prof. Hj. O. Dahl. "Planning of Hydro-Electric Plants, with regard to Reliable Operation." K. E. Nylander.

Sec. C—"Preparation of Fuels in Sweden." Dr. A. F. Enstrom. "Saw-Mill Waste as a Fuel." Otto Nordstrom. "Power from the Wood Waste of the Swedish Forests." Dr. H. von Eckermann. "A New System of Oil Production from Swedish Oil Shale." S. P. Bergh.

New System of On Froductors

Bergh.

Sec. D—"Outstanding Features of Swedish Practice in Steam
Power Production." H. Lundberg. "Some Points with Reference
to Combustion Economy." O, Rodhe. "Steam Generation at Extra
High Pressures." I. V. Blomquist. "High Pressure Water Tube

Boilers." O. A. Wiberg. "Steam Accumulation." Dr. J. Ruths. "Recent Development in the Construction of Steam Turbines." O. A. Wiberg. "Extra High Pressure Steam Turbines." P. Nordstrom. "Air Pre-Heating." Fr. Ljungstrom.

Sec. E—"Review of Internal Combust'on Engine Development in Sweden. Prof. E. Hubendick. "Diesel Engines." K. J. E. Hesselman. "Hot-Bulb and High-Compression Engines." G. Dillner. "Carburettor Engines." Prof. E. Hubendick. "Gas Engines." Prof. E. Hubendick.

man. "Hot-Bulb and High-Compression Engines." G. Dillner,
"Carburettor Engines." Prof. E. Hubendick. "Gas Engines." Prof. E. Hubendick.

Sec. G—"Recent Developments in A.C. Generator Design." R. Liljeblad. "Recent Practice in Transformer Construction." K. E. Eriksson. "Economic and Technical Organization of Large-Scale Power Distribution." W. Borgquist. "Technical and Administrative Systems for Rural Electrification in Sweden." N. Ekwall. "Low Tension Distribution and Electric Storage." C. Rossander. "Design and Standardization of Transformers." A. Ytterberg. Sec. H—"Power Saving Through Anti-Friction Bearings." Uno Forsberg. "Electricity in Agriculture." N. Ekwall. Sec. J—"The Electro-Chemical Industry in Sweden." Prof. W. Palmaer. "A New Resistance Furnace with Reaction Zone." T. Holmgren.

Sec. K—"Power Problems of the Swedish Railways." I. Ofverholm. "Power Questions relating to Swedish Tramways." A. Hultquist. "Power for Water Transport in Sweden." H. Hammar. "The Reversing-Clutch Marine Turbine." O. A. Wiberg. Sec. M—"Power Policy." C. Kleman.

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Sec. M—"Organization of Research Work in Sweden." Dr. A. F. Enström. "Industrial Standardization in Sweden." A. Kruse. "Elementary Eng neering Education." N. Fredriksson. "Advanced Engineering Education." H. M. Pleijel. "Education for Commerce." Prof. C. Hallendorf.

SWITZERLAND.

Papers Proposed.

Sec. A—"The Power Resources of Switzerland."
Sec. G—"High Voltage Power Transmission."
Sec. H—"Power in Agriculture." "Domestic Uses of Power."
Sec. K—"Railway Electrification."

UNION OF SOUTH AFRICA.

Sec. A-"The Power Resources of the Union of South Africa."

UNITED STATES OF AMERICA.

Papers Proposed.

Papers Proposed.

Sec. A—"General National Review of Power Resources, Distribution and Utilization." O. C. Merrill, N. C. Grover and M. R. Campbell. "Regional Review for Northern Eastern States, with particular reference to New Uses for Energy, New Methods of Application and Relative Costs, and Expanding Markets and Delivery." John W. Lieb. "Similar Regional Review for Central and Southern States." Samuel Insuil. "Similar Regional Review for Pacific States." John B. Miller.

See. B—"General Review of Current Practice in Water Power Production." John R. Freeman. "Relation of Power Development and Irrigation upon the same Streams." Henry J. Pierce. "Power Development on Navigable Rivers." Hugh L. Cooper. "The Design and Construction of High Dams." A. P. Davis. "The Design of Water-Wheels and Controlling Equipment."

Sec. C—"Preparation of Fuels." C. F. Hirshfeld.

Sec. D—"General Review of Current Practice." Col. Peter Junkersfeld and Geo. A. Orrok. "Boilers." D. S. Jacobus. "Steam Turbines." W. L. R. Emmet. "High Pressure and Superheat." W. S. Monroe.

S. Monroe

Turbines." W. L. R. Emmet. "High Pressure and Superheat." W. S. Monroe.

Sec. E—"Present Status of Internal-Combustion Engine in America." Dr. Charles E. Lucke.

Sec. G—"Power Station Electrical Equipment." B. G. Lamme. "The Techn'cal Problems of High Tension Electric Power Transmission." F. G. Baum. "Economics' of Power Development in Large Stations Interconnected into a Single Super-Power System." W. S. Murray.

Sec. H—"Electric Power in Steel Mill Operation." B. H. Shover. "Electric Power in the Textile Industry." Charles T. Main. "Electric Power in the Paper Industry." H. H. White.

Sec. J—"Georeal Review of Electro-Chemical Progress and Processes in the United States." F. C. Fitzgerald. "Electric Power in Metallurgy." Frederick Laist.

Sec. K—"Railroad Electrification." Bion J. Arnold. "Electric Ship Propulsion." Commander Robinson, U.S.N.

Sec. M—"Government Policies Best Adapted to Promote Power Development." Hon. Herbert Hoover. "Private v. Public Ownership and Operation." Arthur T. Hadley, "Financing of Power Development in the United States." S. Z. Mitchell. "Relation of Power Development to Industrial and Economic Progress." Guy E. Tripp. "Power Development from the International Standpoint." Owen D. Young. "Policy and Practice in the United States in the Future Regulation of Public Utilities." Carl D. Jackson.

Sec. N—"New Fields for the Development, Distribution and Utilization of Power in which Research should be vigorously Conducted." E. W. Rite, Jr. "International Standardization in the Field of Power." S. W. Stratton. "The Social Aspect of Power Development." F. H. Low. A Paper by Julius Barnes.

Mississippi Committee Appointed for Southern Exposition.

Supplementing the report published in the MANUFACTURERS Record last week on state organizations for the Southern Exposition to be held in New York, the following committee. has been appointed for the State of Mississippi: Frank Andrews, Vicksburg; L. J. Folse, Hattiesburg; L. O. Crosby, Picayune; R. H. Pate, Jackson; S. H. McClary, Meridian; M. T. Sharp, Corinth; J. J. Taylor, Gulfport..

An Arkansas-Texas Chamber of Commerce Commends Secretary Mellon and Denounces His Critics.

Chamber of Commerce,

Texarkana, Ark.-Tex., April 25.

Editor Manufacturers Record:

It affords me great pleasure to send you herewith a copy of resolution unanimously adopted by the board of directors of this Chamber in its regular meeting, April 25. M. E. MELTON.

The resolution follows:

"We believe that Mr. Andrew W. Mellon accepted the appointment to the office of Secretary of the Treasury after being fully persuaded that his services were needed by his country. We know that his accepting the office was a great personal sacrifice and believe that this fact is well and generally known. Mr. Mellon's record as Secretary of the Treasury is filled with successful achievement in spite of the obstacles that have been placed in his way. We are fully convinced that business in this country would be on a more sound basis and that greater things would have been accomplished if more of Mr. Mellon's recommendations on Government finance and tax reduction had been adopted or made possible.

"In our opinion, Mr. Mellon as Secretary of the Treasury is patriotically offering our country the services of one of the world's greatest financiers, and we feel that he should receive the fullest co-operation and support from Congress and the country at large.

"It is, therefore, hereby resolved that we go on record as deploring the manner in which the Secretary of the Treasury is being harassed, hounded and publicly assailed by certain politicians in and out of the United States Senate.

"Believing that our Representatives in Congress are interested in receiving expressions from commercial organizations in their home states, a copy of this resolution is hereby ordered sent to our Senators from Arkansas and Texas and to the Congressmen representing the two districts in which Texarkana is located.

(Signed) "STUART WILSON, B. N. KUHL, Committee."

Southern Company Would Lease Muscle Shoals-New Proposal Submitted.

A new proposal for the lease of the Muscle Shoals dams and nitrate plants, guaranteeing a minimum return to the Government of \$120,000,000 in 50 years of operation, has been submitted to the Secretary of War by the Union Carbide Company of New York, a Virginia corporation, subsidiary of the Union Carbide and Carbon Corporation. The company previously submitted an offer to lease a portion of the project, and this newest offer has been made without withdrawing

The proposal calls for leasing of the properties to a corporation to be organized with a capital stock of \$10,000,000, of which \$1,000,000 immediately would be paid in cash. This corporation would sub-lease the Waco quarry and the nitrate plants to the Union Carbide Company.

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Provision is made for the ultimate annual production of 40,000 tons of fixed nitrogen for fertilizers, which would be sufficient for approximately 2,000,000 tons of fertilizer.

The company proposes to observe all the provisions of the Federal Water Power Act applicable to Muscle Shoals. Power would be used in the manufacture of fertilizer ingredients and other products, and would also be made available for distribution throughout the South for industrial, agricultural and domestic purposes.

The Union Carbide Company operates plants at Baltimore and Elkton, Maryland, and Holcomb Rock, Norfolk and Richmond, Virginia, and in West Virginia at Clarksburg, Clendenin, Glen Ferris and South Charleston.

Enthusiastic for Florida's New Railroad.

BUSINESS MEN OF THAT STATE TELL THE INTERSTATE COMMERCE COMMISSION'S EXAMINER OF ITS IMPORTANCE TO EVERY INTEREST IN THE COMMONWEALTH.

[Special Correspondence Manufacturers Record.]

Jacksonville, Fla., May 3.

The hearing held in the auditorium of the Jacksonville Chamber of Commerce by H. . C. Davis, an examiner of the Interstate Commerce Commission, from Washington, on the application of the Florida Western & Northern Railway Co., to build its proposed line from Coleman to West Palm Beach, Fla., about 200 miles, began yesterday and ended today. While it was a regularly constituted inquiry into the merits of the projected railroad, which will be an extension of the Seaboard Air Line System through the central part of the state and will furnish in addition to north and south connections a short cross state route, the meeting took on the appearance of a most enthusiastic demonstration in favor of the contemplated construction and a most hearty endorsement of the foresight and enterprise of its promoters. Several hundred persons were in attendance, most of them representatives from chambers of commerce, boards of trade and other organizations at various points along the route to be followed by the new railroad, and from points more or less remote therefrom which will reap benefits directly and indirectly as a result of the road that is to be.

Not a word in opposition to the plan was heard. Neither the Atlantic Coast Line Railroad Co. nor the Florida East Coast Railway Co. (which had expressed themselves to the effect that the new railroad was not necessary in their answers to the formal questionnaire sent out by the Commission several weeks ago), were represented at the hearing, but on the other hand there were literally hundreds of voices in approval of the project and the necessity for its execution at the earliest possible moment. There were delegations some of them numbering from 30 to 40 people and others from 26 to 30 people were present from different towns and counties, the following places being among those represented: West Palm Beach, Okeechobee, Sebring, Avon Park, Frostproof, Lake Wales, Lake Garfield, Haines City, Winter Haven, Auburndale, Jacksonville, Bartow, Lakeland, Tampa, Sarasota, St. Petersburg, Wauchula, Orlando, Fort Myers, Bradentown, Palmetto, Clearwater, Center Hill, Kissimmee, Fort Lauderdale and elsewhere.

Among the industries represented were in addition to citrus fruit growers and shippers, dairying, live stock raising, truckers and vegetable growers, packing box manufacturers, lumbermen and others. All of these fairly deluged Examiner Davis with facts and figures concerning their relation to the projected railroad and the benefits that would accrue to them as a result of its construction, and he seemed to be particularly impressed by the thoroughness with which each delegation had prepared its case for presentation and with the manner of its presentation in oral statements made by the representatives present.

There were numerous statements made concerning the character and the amount of freight that was awaiting the building of the road, one individual from Fort Lauderdale expressing especial concern because he had raised 30,000 head of cattle and was particularly interested to know that he would have enlarged and improved shipping facilities available when the road was built. Still another interested and prospective shipper was the Sherman Lumber Company which has contracted for 350,000 acres of timber rights in the vicinity of Okeechobee and will be shipping millions of feet of lumber. These are among the high spots developed at the hearing which was distinguished by a heartiness of the

spirit of enterprise and co-operation that is seldom witnessed anywhere.

Among others endorsing and approving of the new railroad and who appeared in its behalf were U. S. Senator Park Trammell, and Representatives Herbert J. Drane and William J. Sears, while U. S. Senator Duncan U. Fletcher, through his secretary, gave it likewise his endorsement. Ernest Amos, Florida state comptroller, also spoke in favor of the proposed line and presented a resolution passed by the Internal Improvement Board and Board of Everglades Drainage Commissioners, which was signed by Governor Hardee, J. C. Luning, state treasurer, Rivers Buford, attorney general and Nathan Mayo commissioner of agriculture. as well as by Comptroller Amos, and which asked that the approval of the Interstate Commerce Commission be granted. Commissioner A. S. Wells, of the Florida Railroad Commission also stated that that body is unanimously in favor of the construction and that the road is badly needed.

W. R. Bonsal, president of the Jefferson Construction Company of Charleston, S. C., who is the contractor for the road, told Examiner Davis that there were no engineering obstacles which could not be easily and inexpensively overcome and also testified as to the comparative reasonableness of the cost of construction owing to the character of the country through which the route lies, although the road will be built in first-class modern manner with 100-pound steel rails and the best of railroad ties. In addition to this there will be frequent passing tracks so that traffic may be moved rapidly and without delay, especially to the fast express trains for passenger travel. He said he thought that the new road would be the best money-maker that the Seaboard will have had in its system. The route will be from Coleman via Polk City, Auburndale, Winter Haven, Lake Wales, Avon Park and Sebring to West Palm Beach, constituting a new north and south route for travel to and from the east, the north and the west through the famous ridge section of Florida.

There were eighteen primary officials of the Seaboard Air Line present to give testimony and to answer questions that might be put to them in the course of the hearing. These included President S. Davies Warfield, and vice-presidents Charles R. Capps, M. H. Cahill, R. L. Nutt, L. R. Powell, Jr., W. L. Seddon, W. R. Bonsal, W. L. Stanley, and M. J. Caples, besides other operating officials. The Seaboard is to lease the new line for 999 years and to guarantee the \$7,000,000 bonds of the new road both as to principal and interest.

President S. Davies Warfield, of the Seaboard Air Line, in discussing the proposed new extension, said:

"The construction of this railroad across the state of Florida with its connections, is the largest single piece of independent railroad construction undertaken since before the European war. It is not an easy task to finance such an undertaking; nothing but what we considered to be the urgent needs of Florida in securing adequate transportation facilities for agricultural as well as tourist development would have induced me as president of the Seaboard Air Line to proceed with the present undertaking. The Seaboard Air Line has taken an advanced position in pioneer development work in Florida and in Southern territory. was returned from federal control with its equipment used up and the outlook discouraging. From fifteen to twenty million dollars had to be raised to put equipment and the property in condition to meet the demands of the public upon The credit of the railroad was shattered, with its securities selling at a price impossible of use in financing. no railroad has proportionately better equipment and while our securities have made substantial gains in market value, it has not been yet practicable in financing to use them; therefore, financing this new construction was required to be met in other ways.

"These facts are cited in taking the people of Florida into our confidence, for the Seaboard must have their full support in this undertaking if it is to be successful and further development attained. Years ago it was evident that Florida was suffering from lack of means to speedily cross its central area from coast to coast and that additional facilities were essential to take care of its remarkable progress. It has never been the policy of the Seaboard management to add unnecessary milage to its system; in the present extension through the proposed lease of the new railroad, no such condition exists. It is essential to Florida's future. Personally, I feel that all the railroads operating in the state should co-operate to the general end; nothing that the Seaboard has attempted here should prevent such a conclusion.

"In connection with the development of this state alone

"In connection with the development of this state alone and the entire Southern country, Florida and other Southern states, through their representatives in Congress should secure those legislative necessities that make for railroad credit to enable the railroads to finance requirements.

"The hearing now preceeding show that the people of

"The hearing now preceding show that the people of Florida have risen in their realization and interpretation of what this new railroad construction means to them and to the state and have co-operated to the fullest extent in getting as far as we have gotten in the undertaking. It now remains for the commission to give the necessary authority and for those in charge of legislation at Washington to assist in maintaining the legislative requirements to sustain railroad credit."

The testimony revealed that the plans of the Seaboard Air Line to give the State of Florida this cross-state railroad were first taken up by Mr. Warfield over ten years ago, before the European war, which world disaster caused their abandonment for the time being.

It is expected that the Interstate Commerce Commission will render its decision within two weeks on the application for authority to build the road.

To Build \$1,000,000 Hotel in Dallas.

Dallas, Tex.—Plans are being prepared by Lang & Witchell of this city for a new \$1,000,000 hotel to be erected at Harwood and Main streets by Conrad N. Hilton, president of the Waldorf Hotel Company here, associated with Iowa capitalists. The new hotel will be 100 by 75 feet, with entrances on both streets, and will contain a total of 300 rooms.

Southern Cities in National Home-Town Contest.

Of twenty cities of the United States and Canada which will participate in the national home-town five-minute speech contest at the annual convention of the National Real Estate Boards at Washington, D. C., June 3 to 6, ten will be Southern cities, as follows: Birmingham, Ala.; Charleston, W. Vå.; Clearwater, Fla.; Dallas, Tex.; Louisville, Ky.; Lynchburg, Va.; Nashville, Tenn.; Tulsa, Okla.; Wheeling, W. Va., and Winston-Salem, N. C. The alternates include Orlando, Fla., and Baton Rouge, La.

West Kentucky Coal Company to Borrow \$5,000,000.

Sturgis, Ky.—Arrangements have been made by the West Kentucky Coal Co. of Sturgis, which is controlled by the North American Co. of New York, for the sale of \$5,000,000 of first mortgage sinking fund gold bonds. Incorporated in 1905, the West Kentucky Coal Co. acquired coal properties in Western Kentucky which it has operated and developed. It is now acquiring properties of the St. Bernard Mining Co. of Earlington, Ky., and the Kentucky Block Coal Corporation.

With the acquisition of these properties, it is said the company will own mineral rights underlying more than 73,000 acres of coal lands and will hold favorable leaseholds of additional mineral rights underlying 2400 acres. The combined properties will contain 22 mines, it is understood, with a present annual capacity in excess of 3,200,000 tons.

The American Engineering Council Takes Action on the Whole Muscle Shoals Situation.

In a report submitted to Chairman George W. Norris of the Senate Committee on Agriculture and Forestry, the American Engineering Council takes the position that the expectation of cheaper fertilizers immediately is unwarranted and that the synthetic process of nitrogen fixation has altered the whole situation. An exhaustive inquiry by an impartial technical commission is urged. The engineering report, prepared by a special committee of the American Engineering Council sitting in Washington, in response to the request by Senator Norris, is as follows:

"Pursuant to your request, under date of April 5, relative to the Muscle Shoals situation, the American Engineering Council appointed a committee to examine the available data and facts and report thereupon.

"The committee so appointed found it impossible in the time available and with the means at its command to sift out from the mass of conflicting testimony and information sufficient undisputed and determinable data upon which to base a sound engineering recommendation as to the disposition or use of the property.

"The committee was, however, unanimously agreed:

"First, that a joint committee of Congress should be constituted 'to consider offers, conduct negotiations and report definite recommendations' as advised by the President in his message to Congress delivered December 6, 1923.

"Second, that no disposal should be made of any of the Muscle Shoals properties or rights until such joint committee of Congress shall have rendered its report.

"Third, that in no event should any disposition of the power plant be made that is not in substantial accord with the provisions of the Federal Water Power Act.

"In the course of its investigations the committee found nothing to justify the popular belief that the operation of the existing plants at Muscle Shoals will make substantially cheaper fertilizers immediately available, inasmuch as nitrates, however important, constitute but one of the three basic ingredients of commercial fertilizers, and consequently a considerable reduction in the nitrate cost would be reflected only to a slight degree in the cost of the marketable product.

"The committee further found that recent developments of the synthetic process of nitrogen fixation had materially changed the entire outlook in the art and it is now quite possible that this process, for the use of which the so far unsuccessful Muscle Shoals Plant No. 1 was designed, may yet yield nitrate at a cost to compete with that obtained from Chile, and Plant No. 1, until recently considered a failure, may be the more valuable of the two constructed by the Government.

"The Administrative Board of the American Ragineering Council has carefully reviewed the work of its committee and endorses the findings and recommendations above set forth; and in view of the great importance of the questions involved and the much apparently contradictory information thereon presented to the Congress and to the public, the said Board would recommend, and as far as propriety permits would urge, that no disposition of the plants be decided upon until a thorough investigation can be made by a disinterested technical commission, and the Board hereby tenders its services to assist in the formation of such a commission if and whenever such assistance may be desired."

The city of Danville, Va., will vote June 10 on a bond issue of \$350,000 for school improvements, including the erection of three new schools. A program of construction is being considered by the school board.

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Position of Tennessee Manufacturers' Association on Muscle Shoals.

[Telegram to Manufacturers Record.] Nashville, Tenn., May 2.

Because your journal has demonstrated itself to be an unselfish and powerful friend to the whole South and that you have not been swept off your feet by the hysterical proposal to deliver Muscle Shoals to Henry Ford without reference to the terms of the contract, and in order that you may not be deceived by the misrepresentations in the testimony of Nashville parties, I am taking the liberty to forward you my adderss to manufacturers of Tennessee, which you may use as you wish.

I want you to know that there is a considerable element in this state not obsessed with the absurd idea that Muscle Shoals should be given to Mr. Ford or anybody else without adequate guarantees. The fact that Major Stahlman devoted the larger part of his testimony in trying to discredit McGugin, myself and our association is proof of the scarcity of argument in support of his position.

J. E. EDGERTON, President,

Tennessee Manufacturers Association.

The address of President Edgerton to the Tennessee Manufacturers' Association referred to in the foregoing telegram is as follows:

An Address to the Members of the Tennessee Manufacturers Association by Its President, J. E. Edgerton.

"Happy is the man that findeth wisdom, and the man that getteth understanding."

The issue as to the wisest disposal of the Muscle Shoals properties has been so beclouded by the wild fanaticism of many of those favoring Mr. Ford, without reference to the inherent merits of his proposal to the Government, and the position of the Tennessee Manufacturers' Association with regard thereto has been so grossly and persistently misrepresented that we think it both proper and expedient to furnish our members with copies of the officially reported testimonies and examinations of Capt. B. H. Wilkins and Mr. Dan E.' McGugin at a recent hearing before the Committee on Agriculture of the United States Senate. Be it remembered that Captain Wilkins and our general counsel, Mr. McGugin, were in Washington upon my exclusive authorization as president of the association, and they were there solely as representatives of our organization to execute its will as expressed in the following resolution unanimously passed by our last annual convention:

Resolved, by the Tennessee Manufacturers' Association in annual convention at Nashville, That in the making of any contract by the Federal Government for the operation of the development at Muscle Shoals, manufacture of explosives for national defense be deemed the most important feature; manufacture of fertilizer in time of peace, second; that the contract with the licensee provide that power from Muscle Shoals shall be distributed in Alabama and the adjoining states and offered for sale; that the Federal Water Power Act apply to the contract, and that the completion of Dam No. 3 be positively assured.

How splendidly these representatives of ours performed the task assigned them and with what scrupulous exactitude they kept within the limits of this resolution are clearly shown in the copy of the proceedings enclosed. Many letters to us from distinguished members of Congress and from others throughout the country attest the favorable impressions made by the calm, broad, fair presentation of our position. They rendered a very valuable, courageous service to our association, to industry particularly in the South, and to the tax-

payers of the nation, who own Muscle Shoals, and they are entitled to the everlasting gratitude of all these beneficiaries of their efforts.

We resent as wholly untrue and palpably unfair any suggestion from whatever source that either of these gentlemen was acting in any other capacity than as our representatives, was actuated by other than the most honorable motives of public service, or abused to any extent the confidence placed in them or the instructions given them.

Let those who really want to know the truth or who have any desire to be fair in judgment and intelligent in discussion read this report. If, however, there be among our members any victims of the Ford hysteria which seems to have swept thousands of otherwise calm and intelligent men off their feet, they should, perhaps, not read it, unless, perchance, they are tired of fanaticism and are ready to submit to an application of dispassionate reasoning.

As I interpret it, the primary purpose and supreme function of the Tennessee Manufacturers' Association are to promote the general welfare of this state through the employment of the association's resources and energies in protecting and building up our industries without infringing upon the legitimate rights of any other group or class of people. We have held tenaciously to that program for fourteen years, and will not swerve from it now at the behest or threat of any selfish or hysterical individuals or groups. If and when I reach the point where in the performance of my official duties I cannot think above my selfish material interests and subordinate my individual opinion to the consideration of the common welfare, I shall regard myself as unworthy and will forthwith resign. When the manufacturing enterprise of which I am the chief executive cannot prosper except at the unjust expense of others, it will deserve to die, and I shall de nothing to prolong its unrighteous life.

The source of my authority as president of the association is its membership. Each year we have an annual convention to which all members are invited for the purpose of considering and acting upon all questions of organization management and of attitude and procedure. When the annual convention by even a majority speaks on any question it is the duty of its officers to execute its will. Those who do not take the trouble or make the sacrifice to attend or have their firms represented at the convention surrender every proper basis of protest against what may be done. Our association is governed by the same democratic principles which underlie all true American institutions. The majority rules, and he who does not believe in that principle and is not willing to accept it has no right in any lawful assemblage.

At the last annual convention, the question as to what attitude our association should take with reference to the disposal of Muscle Shoals was at my instance submitted for discussion. Inasmuch as these properties belong to all of the taxpayers in the United States and constitute a national value of tremendous proportions, and inasmuch as the future of industry, particularly in the South, will be vitally affected for many years by whatever disposal is made of the properties, I regarded it as not only proper but highly desirable that we discover and define our attitude. After several hours of discussion, the largest convention we have had in many years unanimously adopted the resolution already quoted.

Personally, I regard this as the very sanest position the association could take, and I have not seen or heard the wildest Ford fanatic or anybody else even attempt to challenge its soundness or make an intelligent argument against it. I have yet to discover one sensible argument why the United

States Government should bargain away for a song these valuable public properties to Mr. Ford or anybody else without providing every reasonable safeguard for the protection of all the people and securing the strongest guarantees that they will be perpetually used in a manner that will be of the largest benefit to all the people whose money purchased them.

Certainly, Mr. Ford is a genius and a great business man; and in no instance during his career has he exhibited those qualities more clearly and impressively than in his bid for these properties. To him this is a business proposition like everything else is, and he would be inconsistent with his own record of admirable achievement if he were not trying to make the best trade possible. That is why he has been able to accumulate a billion dollars. Nobody has ever caught him napping yet nor has he ever become the victim of the hysteria which he is able to create for others. He is like the common run of men in most respects, having the same appetites, passions, propensities and susceptibilities. He is not a demi-god as we would be made to believe. Nobody knows of anything of consequence that he has ever given away, and nobody can point to any wage ever paid by him which was not first earned and which required any burdensome encroachment upon his own profits.

The power companies and other bidders are governed, no doubt, by exactly the same considerations. They all see a good thing and they want a profit, and when they render service commensurately they should have a profit. There is no occassion for sentiment in this transaction. Neither Nashville, Chattanooga, Birmingham, Florence nor any other city, community or individual has any more claims upon these public properties than has any other. Then, where is the "selfish interest" about which we have heard so much from those who have discarded intelligent consideration in their hysteria and are directing their appeals to the prejudice, hatred and narrowness of men?

Some of it may be found among those progressive real estate men from New York to New Orleans who have sold their innumerable lots along the Tennessee River from its source to the mouth and who have persuaded the purchasers by devious methods that Mr. Ford will build a magic city and they will all be rich. And some of it may be found among the multitude of ingenious merchants, manufacturers, newspapermen and others who have visions of selling their wares in vastly enriching amounts when the magic city (which is not mentioned in the proposals) is builded.

Never, it seems to me, was there greater necessity for a renaissance of common sense than now. When and if that takes place, personalities will be forgotten, prejudice discarded, and all proposals will be calmly analyzed and considered in the light of good business judgement. Then, nobody will get Muscle Shoals simply because he is a genius, that he has made a billion dollars and kept it, that he pays big wages, that he loves the farmer, that he will do this, that or the other that is not mentioned in the proposal, or that he discovered the value of the properties. He or they will get the property only because they offer the largest consideration, the fullest and surest guarantees, and the best evidence that the largest benefits to all the people will follow.

That is what the Tennessee Manufacturers' Association stands for and is going to continue to insist on. It absolutely refuses to go crazy because a scheme is popular. We are going to stand by our resolution. We know we are right, and we have nothing to fear.

\$7,000,000 Pipe Line Contracts to Be Let.

Fort Worth, Tex.—It is stated here that the McCorkle Pipe Line Co., with offices in this city, will soon award contracts for the construction of its proposed \$7,000,000 pipe line to extend from Duncan, Okla., to Aransas Pass, Tex. Construction will involve about 1000 miles of pipe line and more than 100 storage tanks, the majority of which will have a capacity of 55,000 barrels.

Contracts for pumps and pumping machinery to cost \$1,400,000 have already been awarded, it is stated, most of the work going to the Prescott Co. of Menominee, Mich.

A large refinery to be erected at Aransas Pass is said to be a part of the plan of the company for its terminus at that point.

Ten-Story Hotel for Sarasota.

Contract will soon be awarded for a ten-story hotel at Sarasota, Fla., to be erected by W. H. Pipcorn of Milwaukee, Wis., and for which plans have been prepared by Floyd Hamill of Tampa. The building will have a frontage of



NEW HOTEL TO BE ERECTED AT SARASOTA.

50 feet on Main street and 100 feet on Palm avenue, and will contain 108 rooms each with outside exposure. The site has recently been purchased by Mr. Pipcorn and is at present occupied by the Prentice House.

Will Build \$350,000 Store in Birmingham.

Birmingham, Ala.—J. G. Whitfield of Springhill, Tenn., has purchased a site at Fourth avenue and Eighteenth street in this city, and announces plans to erect a modern department store to cost not less than \$350,000. The building will be 140 by 150 feet, six stories, and will be occupied by an out-of-town firm. Negotiations for the purchase of the site, which will be used in conjunction with property already owned by Mr. Whitfield, were handled by the McConnell-White-Terry Realty & Insurance Co. of this city.

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Developed and Potential Water Power of the United States.

The Geological Survey reports in its record of developed water power in the United States for 1924 that there are about 3200 water-power plants of 100 horsepower or more, having a total capacity of installed water wheels of 9,086,958 horsepower, an increase of about 1,160,000 horsepower, or nearly 15 per cent over the total in 1921, which was 7,926,958 horsepower. Of the present total 81 per cent is in publicutility plants and 19 per cent in manufacturing plants. The corresponding percentages in 1921 were 78 and 22.

New York, with 1,542,983 horsepower, is still the leading state in developed water power; California, with 1,451,830 horsepower, is second; Washington, with 480,356 horsepower, is third; Maine, with 473,188 horsepower, is fourth; and North Carolina, with 431,500 horsepower, is fifth, displacing Montana, which rapked fifth in 1921.

Water-power development in the New England, East North Central, West North Central and Mountain States has not kept pace with that in the other parts of the United States as the following table shows:

DEVELOPED WATER POWER IN SPECIFIED DIVISIONS OF THE UNITED STATES IN 1921 AND 1924.

	Percentage of tota	al
	in United States	3
Division	1921 1924	
New England	. 16.5 15.3	
Middle Atlantic	. 18.7 19.1	
East North Central	. 9.3 9.1	
West North Central	. 5.6 5.1	
South Atlantic	. 13.6 14.3	
East South Central	. 3.1 3.8	
West South Central	2 .2	
Mountain		
Pacific		

In the South there are reported 334 water-power plants of 100 horsepower or more, with a total capacity of installed water wheels of 1,673,126. The following table gives the total number of plants and capacity of water wheels installed in the United States and by sections in 1924.

potential power than can be developed when a market is available, yet it does not differ very materially from the estimate made in 1908. Allowing for the difference in assumed efficiency and for the inclusion in this estimate of the United States' share of the potential power on Niagara and St. Lawrence Rivers, the present estimate of the potential power available 90 per cent of the time is about 21 per cent higher than the estimate of 1908 mainly because of the assumed use of stored water at places where detailed examinations and surveys have shown the existence of good reservoir sites. For the same reason the estimates of power available 50 per cent of the time is 4 per cent higher.

This estimate can not be considered final in all respects. Surveys and detailed studies are necessary to determine the most economical method of development, and these studies will probably lead to changes in the estimates of potential power in individual states. Additional data are especially desirable for some of the South Atlantic States. Future studies will probably be concerned principally with the use of stored water. These studies may result in a considerable increase in the estimate of the potential power available 90 per cent of the time but will probably affect to a much less extent the estimate of potential power available 50 per cent of the time. The estimates made in 1908 of total potential power without storage have been compared with recent estimates made for several states where reliable data show the power that can be economically developed, including that available by the use of stored water. As this comparison shows no radical difference in total results, future studies will probably make no great change in the present estimate of the potential water power of the entire country.

Washington stands first among the states in potential water power for power available both 50 per cent of the time and

DEVELOPED WATER POWER, 1924. (Capacity of water wheels installed in plants of 100 horsepower or n

(Capacity of water wheels insta	neu m piai	ILE OF TOO HOLD	schoner or n	HULC.)		
			Public	utility and	Manufact	turing and
		Total	muni	icipal	miscel	laneous
	Number of	Capacity in	Number of	Capacity in	Number of	Capacity in
Division	plants	horsepower	plants	horsepower	plants	horsepower
United States	3.211	9.086,958	1.390	7.348.197	1.821	1,738,761
New England	1.228	1.387.364	249	644,831	979	742,533
Middle Atlantic	607	1,731,881	228	1,408,173	379	323,708
East North Central		829,854	212	625.826	130	204.028
West North Central	183	459,736	117	376.864	66	82,872
South Atlantic		1,295,978	129	1.045,728	. 130	250,250
East South Central	. 50	345,584	32	323,816	18	21,768
West South Central		16,727	12	12,515	15	4.212
Mountain	. 226	880,783	178	860,937	48	19,846
Pacific	289	2.139 051	233	2.049.507	56	89.544

A new estimate has been made of the potential water-power resources of the United States. Absence of market for power and inability to obtain necessary legal rights will delay development but should not prevent it. The figures given in the estimates show the 24-hour power available 90 per cent of the time and 50 per cent of the time at 70 per cent overall efficiency at both developed and undeveloped sites.

The estimate of the water-power resources of the United States is based on reports prepared by bureaus of the Federal Government, by states, by corporations, and by private engineers. In districts for which no water-power reports are available the data used are taken from the estimate of the potential water power of the United States prepared by the Geological Survey in 1908. In many of the reports from which the data were taken the estimates of potential power include the use of stored water for generating power. For districts where reservoirs are already built or where detailed field examinations show that such storage is feasible, these estimates have been used.

The present estimate is based largely on reports that include only feasible sites, and it therefore represents the

90 per cent of the time. It is closely pressed, however, by Oregon, California and New York. A large proportion of the potential power in New York is available continuously, due to the equalization of the flow of Niagara and St. Lawrence Rivers. The same is true of Arizona, whose water power resources are mainly on the Colorado River, where the flow can be controlled.

The estimated power available 90 per cent of the time in the South, according to figures compiled from the Geological Survey's 1924 report, amounts to 3,983,000 horsepower, and the total power available 50 per cent of the time in the Southern States is estimated at 7,498,000 horsepower.

POTENTIAL WATER-POWER RESOURCES OF THE UNITED

	STATES	1924.			
	Available 90 of the		Available 50 per cent of the time		
State and division	Horsepower	Per cent	Horsepower	Per cent	
United States	.34.818.000	100.00	55,030,000	100.00	
Maine		1.54	1,074,000	1.95	
New Hampshire		.53	350,000	.64	
Vermont		.23	169,000	.31	
Massachusetts		.31	235,000	.43	
Rhode Island		.07	40,000	.07	
Connecticut	65,000	.19	110,000	.20	
New England-					
	998 000	9.87	1 978 000	3 60	

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	Available 96 of the	time	Available 50 per cent of the time		
State and division	Horsepower	Per cent	Horsepower	Per cent	
New York	4,010,000	11.52	4,960,000	9.03	
New Jersey	50,000	.14	90,000	.16	
Pennsylvania Middle Atlantic—	257,000	.74	638,000	1.16	
	4,317,000	12.40	5,688	10.35	
Ohio	55,000	.16	166,000	.30	
Indiana	40,000	.12	110,000	.20	
Illinois	189,000	.54	110,000 361,000	.66	
Michigan	168,000	.48	214,000	.50	
Wisconsin East North Central—	. 285,000	.82	480,000	.87	
	737,000	2.12	1,391,000	2.53	
Minnesota	203,000	.58	401,000	.73	
Iowa	169,000	.49	395,000	.72 .27 .35	
Missourl	67,000	.19 .23	$152,000 \\ 193,000$	25	
North Dakota South Dakota	82,000 63,000	.18	110,000	.20	
Nebraska	183,000	.53	342,000	.62	
Kansas	104,000	.30	$342,000 \\ 251,000$.46	
	871,000	2.50	1,844,000	3.35	
Delaware Maryland and Dis- trict of Columbia.	5,000	.01	10,000	.02	
trict of Columbia	106,000	.30	238,000	.43	
Virginia		1.32	812,000	1.48	
West Virginia	355,000	1.02	980,000	1.78	
North Carolina South Carolina	540,000	1.55	816,000	1.48	
South Carolina	$\frac{429,000}{572,000}$	1.23	$632,000 \\ 958,000$	$\frac{1.15}{1.74}$	
Georgia Florida South Atlantic—	$\frac{572,000}{10,000}$	$\frac{1.65}{.03}$	$958,000 \\ 18,000$.03	
	2,476,000	7.11	4,464,000	8.11	
Kentucky	77,000	.22	184,000	.33	
Tennessee	432,000	1.24	710,000	1.29	
Alabama	472,000	1.35	1,050,000	1.91	
Mississippi East South Central—	30,000	.09	60,000	.11	
	1,011,000	2.90	2,004,000	3.64	
Arkansas	125,000	.36	178,000	.32	
Louisiana	1.000	.00	2 000	.00	
Oklahoma	70,000	20	194,000	.35	
Texas	238,000	.69	514,000	.94	
	434,000	1.25	888,000	1.61	
Montana	2,550,000	7.32	3,700,000	6.72	
Idaho	2,122,000	6.10	4.032.000	7.33	
Wyoming	704.000	2.02	$\frac{4,032,000}{1.182,000}$	$7.33 \\ 2.15$	
Wyoming	765,000	2.20	1,570,000	2.85	
New Mexico	116,000	.33	186,000	$\frac{.34}{5.25}$	
Arizona Utah	$2,759,000 \\ 1,420,000$	$\frac{7.92}{4.08}$	$2,887,000 \\ 1,586,000$	2.88	
Nevada	300,000	.86	370,000	.67	
	10,736,000	30.83	15,513,000	28.19	
Washington	4,970,000	14.27	7.871,000	14,30	
Oregon	3,665,000	10.53	6,715,000	$\frac{12.20}{12.13}$	
California	4,603,000	13.22	6,674,000	12.13	
	13,238,000	38.02	21,260,000	38.63	
		-			

New 58-Suite Apartment Building for Nashville.

Construction is in progress on a 58-suite apartment house at Nashville, Tenn., for the Washington Realty Co., of which J. Homer Colley is secretary, treasurer and general manager. The building and grounds will occupy a 4-acre tract, on which will be provided a lawn, 343 by 160 feet,

in front of the structure, and a playground for children, including a basketball court and tennis courts in the rear. Of fireproof construction, the building will be three stories high, of tile and brick, with concrete floors. It will be known as The Washington. C. K. Colley & Co. of Nashville are the architects.

The following contracts have been awarded: Excavation and foundation, John Oman, Jr.; brick work, W. S. Crandal; cut stone work, Tanksley-Drumright Co.; carpenter work, M. M. Graham & Co.; plumbing and heating, W. H. Grewar Co.; electric work and fixtures, Hebrick & Lawrence; painting Charles A. Howell; plastering, Reynolds & Ferguson; oak flooring, W. H. Horn Co.; roofing, Uncle Hiram Roofing Co.; trimming hardware, Hermitage Hardware Co.; tile and marble work, A. Singer & Sons, all of Nashville.

Shreveport Department Store to Cost Over \$300,000.

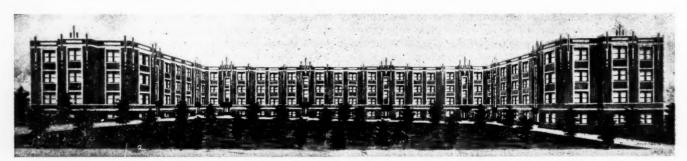
A new department store being erected at Shreveport, La., for Sam Wiener, Jr., and J. Katzenstein at a cost of more than \$300,000, is now about one-third complete. The building is of fireproof construction, four stories and basement, 80 by 150 feet, with concrete foundations, cement and maple floors



HOW THE STORE WILL LOOK WHEN COMPLETED.

and Barrett roof. Jones, Roessle, Olschner & Wiener are the architects, and W. H. Werner, general contractor, both of Shreveport.

Contract for heating and plumbing has been awarded to the Fitzgerald Plumbing & Heating Company and for electrical equipment to the Cahn Electric Company, both of Shreveport. The Shreveport office of the Otis Elevator Company, New York, has contract for elevators.



PROPOSED WASHINGTON APARTMENTS AT NASHVILLE, TENNESSEE.

Federal Water Power Act Analyzed.

IF HENRY FORD IS GIVEN MUSCLE SHOALS ITS ESSENTIAL PROVISIONS WILL BE SCRAPPED.

By WM. BENJAMIN WEST, New York.

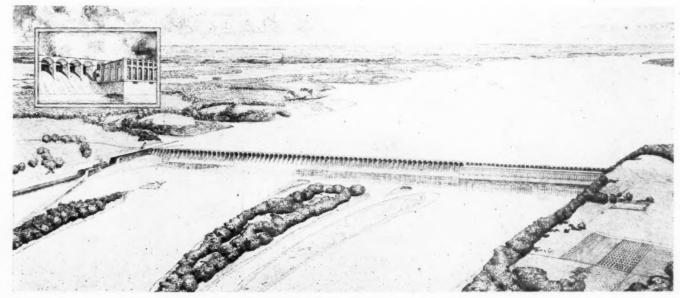
"Is the Federal Water Power Act to be repealed piecemeal? Are its essential principles to be scrapped? This is the question that must soon have an answer; for efforts are being made in several directions-notably in the case of the Tennessee River at Muscle Shoals-to secure for certain power sites and certain streams special legislation which would constitute, if approved, a virtual repeal of the Federal Water Power Act in so far as such sites and streams are concerned. The success of such efforts would mean progressive disintegration of what has rightfully been assumed to be a fixed national policy with respect to water-power development,-a policy declared by Congress in unmistakable terms in the Federal Water Power Act of 1920. Has the Act failed: did Congress make a mistake in its declaration of policy; or is it a question merely of effort to circumvent the law?"

The statements and questions above are those of O. C. Merrill, executive secretary of the Federal Power Commission, Washington, made many months ago when the problem of disposing of Muscle Shoals forcibly presented itself. The same conditions exist today, although the dangers are multiplied. The House of Representatives has authorized the Secretary of War to grant to Henry Ford, the richest man in the world, this enormous Government project, constructed and under construction, at a cost to the people of the United States in excess of \$150,000,000—one half by sale at a net price of \$1,500,000; and one half by lease for a period of 100 years, with a preference right to renew the lease when the period has expired.

It will be found that in all instances where it is proposed by special legislation to grant rights or authorities to special interests or special agencies independently of the Federal Water Power Act, that some or all of these essential features of the Act have been omitted, even when there have not been substituted provisions in direct conflict with them, says Mr. Merrill. Furthermore, the granting of special privileges clearly discriminates against those who in faith that Congress had at last fixed its policy, are investing hundreds of millions of dollars under the obligations of the Federal Water Power Act. In the discussion which follows the writer is indebted to Mr. Merrill's data for the facts and figures presented.

The results already accomplished afford convincing evidence that the Act has not failed, and that grants of special privileges are not necessary to secure water-power development. Congress made no mistake in its declaration of policy in the Act of 1920, but it would be a mistake and a serious mistake, to permit that policy to be essentially modified. It must be concluded that the proposals for special legislation are simply attempts to circumvent the present law. If successful they would discriminate against those who are operating under that law and would endanger the public interest, not only in themselves but also in serving as precedents for similar action in the future. Having spent 10 years in discussing and developing a national water-power policy and having written such a policy into legislation, i; would seem most unwise, even though the Act were not successful, to proceed to modify its policy before it had been given a fair trial. To proceed to modify it when it is proving a distinct success would be worse than unwise.

That the chief provisions of the Act protect every legitimate public interest in our water powers is apparent. That they afford conditions under which capital may be secured for purposes of development is evidenced by the results accomplished in the two years in which the Act has been in effect. In this time there have been filed with the Commission 500 applications for permits or licenses, involving a net estimated installation after deducting conflicting or overlapping projects and rejected applications in excess of 21,000,000 horsepower. This amount is more than twice the existing water-power installation of the United States. It exceeds the combined potential water-power resources of Norway, Sweden, Finland and the Arctic and Baltic drainages of Russia,-the chief water power region of Europe. It is nearly twice the combined resources of France and Italy. It is more than six times the aggregate of all applications for power sites under Federal control in the preceding 20 years. Up to May 1, 1924, the commission had authorized 116 preliminary permits and 132 licenses, of which 54 were for major projects. A total of 85 permits



ENGINEER'S DRAWING OF WILSON DAM AS IT WILL APPEAR WHEN COMPLETED.

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are now outstanding and involve an estimated installation of 5,700,000 horse power, and the 54 licenses for major power projects, 2,660,000 horsepower, or a total of 8,360,000 horsepower. Of the projects covered by 54 licenses 41, involving an estimated installation when completed of 2,590,000 horsepower and investments of not less than \$400,000,000, were either completed or under construction at the close of the fiscal year. This is 100 per cent more than was



ELABORATE FORMS FOR CONCRETE CONSTRUCTION.

constructed under Federal authorization in the 20 years preceding the passage of the Federal Water Power Act. As a practical result of the present law there is more water power now under construction than at any previous period in our history.

The Act is administered by the Federal Power Commission, composed of the Secretaries of War. Interior and Agriculture, chosen because of their official relations to navigable waters, public lands and national forests, respectively. The work of the Commission is handled in part by a staff in charge of an executive secretary and in part by the three departments, which supply the personnel of the Commission's staff and perform all its field work.

The Act makes clear provision for the supervision and regulation of developments. It requires that the works be designed with due regard to safety and economy, that they be maintained in full operating efficiency, and that all necessary renewals and replacements be made. It requires that reserves be established out of the earnings in order that assets or credits may be available from which replacements can be made, and by which the investment may be kept intact. It requires the maintenance of a system of accounting in order that information may be currently available with respect to investment and earnings in order that when the license expires records shall have been kept adequate for determining the terms of compensation should the property be taken over, or the terms of extension should the license be renewed. The United States may acquire the property for Governmental purposes, or may issue license to a new licensee, or may issue a new license to the original licensee. If the properties are taken over the licensee is to be paid his "net investment" therein, not to exceed fair value, plus such damages, if any, as may be caused by the severance of property taken from property not taken. The "net investment" is an amount which represents the original cost of the properties, less so much of the then existing reserves as have been accumulated out of earnings in addition to a fair return. Full recognition is given to every dollar of honest investment.

The Act provides for public regulation of rates, service and securities, either by the Commission or by state agencies. If the state has not provided an agency of its own the Commission is given jurisdiction in intrastate business, and in interstate business if the states are not able to agree. It provides that in the valuation of property for purposes of rate making no value shall be claimed or allowed in excess of "net investment."

Charges collected are nominal for privileges granted being primarily for the purpose of offsetting the cost of administration and of conducting investigations authorized by the Act. Where property representing Government expenditures is leased a reasonable annual interest charge is made. After the first 20 years of operation under any license, out of the surplus earned thereafter in excess of a rate of return specified in the license, the licensee shall pay a specified proportion into an amortization fund, and



CENERAL VIEW OF DAM SHOWING HIGHWAY, WHICH IS 133 FEET ABOVE THE RIVER BED.

the surplus so paid is to be employed for reducing the investment upon which rates may be charged. Such a surplus shall be used whenever the accumulated earnings exceed one and a half times the actual interest rate on the interest-bearing debt of the license.

Plans for projects must be so drawn as to be "best adapted to a comprehensive scheme of improvement and utilization for the purposes of navigation, of water-power development and of other beneficial public uses." Projects must not interfere with subsequent full development of remaining sites.

Authority for development i given in licenses limited to 50 years' duration, unalterable for their term, and issued at the discretion of the administrative authority.

While the writer has maintained that as the Government undertook to develop Muscle Shoals the Government should

carry out its own plan, yet, in view of the President's recommendation to sell the Muscle Shoals plants, it is certainly in keeping with the best of practice to appoint a special board of experts to review all bids, after specifications for bidders have been drawn up by the board. As a part of such specifications, it seems that railroads in the South should be consulted as to their aims for electrification within the period for which the specifications are to cover, and to then embody in the specifications some plan of co-operation between the lessee and the railroads of the South.

It is now known that railroads precede, rather than follow, electrical development of all kinds except in rare cases, and the needs of the farmers of the South now are more for a cheaper, better and quicker means of marketing their products than any other thing, unless it be the much discussed fertilizer.



TWO LOCKS FOR NAVIGATION PURPOSES, EACH WITH A LIFTOF 45 FEET, WILL BE PROVIDED.

A Negro School at Gordon.

A recent letter in the Manufacturers Record from a New England visitor to Gordon, Ga., in which he stated that there was no public school in that community for colored children, was published in the Manufacturers Record after we had waited four or five weeks to see if we could secure any reply from the mayor of the town, who, however, failed to acknowledge the receipt of our letter.

H. D. Pollard, general manager of the Central of Georgia Railway Company, by reason of the fact that Gordon is on his line has taken much interest in looking up the matter, and finally has secured a reply from Oscar W. Hall, a colored man, who is one of the trustees of the negro school at Gordon. His letter shows that for two years there was no negro school in that town, as the trustees preferred for that length of time to do without a school in order to use the money for the erection of a new building. His letter shows that the school is open 6 months a year and that the principal of the school gets \$30 a month and the assistants \$20 a month.

To Expend \$600,000 on Champion Fibre Plant.

The Champion Coated Paper Co. of Hamilton, Ohio, which recently acquired control of the Champion Fibre Co. operating a large paper mill at Canton, N. C., advises the Manu-

\$600,000 within the next six or eight months in carrying out its plans. It has completed the purchase of an additional Fourdrinier paper machine, beaters and stuff pumps, leaving only a few minor items to be purchased.

American Iron and Steel Institute Meeting.

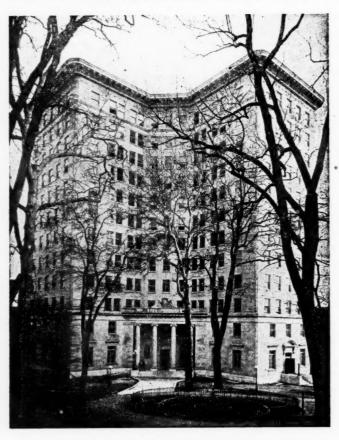
Of great interest and importance to the South, the agricultural sections as well as other areas, wife be the twenty-fifth general meeting of the American Iron and Steel Institute at the Hotel Commodore, New York city, Friday. May 23. Among the papers to be read are the following:

"The Manufacture of Steel For Ordnance Purpose," J. B. Rhodes, U. S. N.; "The Influence of the Composition of Iron Ores on the Cost of Manufacture of Pig Iron," H. Foster Bain, Director, United States Bureau of Mines; "Selling Practices in the Steel Industry," Ernest T. Weir, Weirton Steel Company, Weirton, W. Va.; "Uniform Coking Coal As a Factor in Blast Furnace Economy," Walther Mathesins, Illinois Steel Company, Chicago; "Hardened and Ground Rolls," J. R. Adams, superintendent of research, the Midvale Company; "Power Requirements for Rolling Steel," Gordon Fox, electrical engineer, Freyn, Brassert & Co., Chicago; "Gas Cleaning, Wet and Dry Methods," G. M. Hohl, Bethlehem Steel Company.

New State Office Building Completed at Richmond at Cost of Over \$1,000,000.

Costing more than \$1,000,000, the new State Office Building recently completed at Richmond, Va., is regarded as one of the most practical in its appointments, as well as one of the most beautiful buildings of this character in the state. It is twelve stories high, with concrete foundations, steel frame, granite base to the first floor level, Indiana limestone to the third floor, buff pressed brick from there to the eleventh story lintel belt course, with the twelfth story and cornices finished in terra cotta.

All loads placed upon the floor beams are transferred to the steel columns and thence to the concrete foundations, some of them from twenty-five to thirty feet under the ground. Floor



STATE OFFICE BUILDING AT RICHMOND, VA.

loads are transmitted to the beams by means of wire cables strung closely together and embedded in gypsum floor slabs.

Different floors of the building are arranged to suit requirements of the state departments, a unique feature being the laboratories, which are specially equipped. A testing laboratory of the state highway department is located in the basement, laboratory of the health department on the sixth floor, seed-testing laboratory on the eleventh floor, while the entire twelfth floor will be devoted to the chemical laboratory.

Plans and specifications were prepared by Carneal & Johnston of Richmond. The John T. Wilson Co. also of Richmond, are the supervising contractors, and James Posey of Baltimore, is the consulting engineer. Among firms and individuals to whom contracts were awarded, are the following:

Acme Steel Products Co., Philadelphia, steel sash; Edgar M. Andrews, electrical work; J. S. Archer, metal windows; Barnes Safe & Vault Co., vault doors; R. C. Beverley Heating Co., power piping; Billings & Thorpe, cement walks; Binswanger & Co., glass and glazing; K. L. Black & Co., excavation; Reuben Burton, miscellaneous sheet metal; Capital

City Iron Works, boilers; T. J. Cromar, setting stone; Duke, Carter & Page, brick work; C. C. Elliotte, plastering; Ferrandini-Legnioli & Co., models; Froehling & Robertson, cement tests; Hawkins Hamilton Co., power house engine; John B. Helfert, stone wall and fence; Morris Hunter, power house wiring; Tom Jones Hardware Co., finishing hardware, and N. W. Martin & Bro., roofing and sheet metal, all of Richmond.

A. W. Mayard is contractor for sewers and manholes; Melvin Meador, floor finishing; Montague Mfg. Co., mill work; R. Massie Nolting, refrigerator doors; Phillips Lumber Co., Inc., lumber and cement; S. J. Rhodes & Sons, painting; Richmond Structural Steel Co., ornamental iron work; Richmond Tile & Mosaic Co., tile and terrazzo; John H. Rose & Co., plumbing; Southern Asbestos Mfg. Co., refrigeration; Southern Steel Products Co., reinforced steel; Sydnor & Well Co., test holes; Virginia Equipment & Supply Co., Inc., vitriolite and mastic fibre, and Virginia Steel Supply Co., miscellaneous reinforcing steel, all of Richmond.

Contracts were also awarded to the Barnett Foundry & Machine Co., Irvington, N. J. for stokers; Coeburn Trolley Track Mfg. Co., Holyoke, Mass., kalamein doors; Davenport-Taylor Mfg. Co., Chicago, directory board; Riggs, Distler & Co., Inc., Baltimore, heating; Furst-Kerber Cut Stone Co., Bedford, Ind., limestone; General Electric Co., Schenectady, N. Y., generators; Harrisburg Foundry & Machine Co., Harrisburg, Pa., engine; and Lehigh Structural Steel Co., Allentown, Pa., steel.

New Jersey Terra Cotta Co., terra cotta; Otis Elevator Co., elevators; Penn Brass & Bronze Works, bronze work; Van Kannel Revolving Door Co., revolving doors; American Mailing Device Co., mail chute; Grant Pulley & Hardware Co., window cleaner bolts; Keystone Gypsum, Fireproof Corp., gypsum floors, all of New York; Pennsylvania Flooring & Woodoleum Mfg. Co., Philadelphia, magnesite floors; J. D. Sargent Granite Co., Mt. Airy, N. C., granite, and Tennessee Producers Marble Co., Knoxville, marble.

W. W. Savedge is the superintendent of the building.

Houston Will Vote Again on \$1,500,000 Bonds.

Houston, Tex.—At a recent election here the city defeated a number of bond issues for municipal improvements, but City Council has decided to resubmit the issues to a vote on June 3 with the exception of \$100,000 auditorium and remodeling bonds.

Items to be voted on will total \$1,500,000, including the following: Permanent paving, \$500,000; gravel paving, \$200,000; drainage sewers, \$350,000; sanitary sewers, \$150,000, and central library construction, \$300,000.

Will Build Railway Cars at Tampa.

Tampa, Fla.—Plans are being made by the Whiting Railway Motor Co., Inc., capitalized at \$200,000, to build shops at Gary, near this city, for the manufacture of the Whiting motor railway cars. A production of ten cars the first year is expected, and thereafter a gradual increase in the output.

This company is an outgrowth of a business started several years ago by Mr. Whiting, who is now vice-president of the new company. F. W. Brown of Tampa is treasurer.

New Office Building Planned for Birmingham.

A new office building is in prospect for Birmingham, according to an announcement of Richard W. Massey of that city, who wires the Manufacturers Record that he is now taking bids on a six, eight or ten-story reinforced concrete building, 75 by 100 feet. W. L. Welton of Birmingham is the architect.

Reports from Birmingham state that the structure will be erected at Third avenue and 21st street, a portion of the building to be occupied by a bank.

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NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore we often publish letters with which we do not agree.—Editor Manufacturers Record.]

How One Man Learned Things About the South Which He Had Never Been Taught in School.

J. E. CRAFTON, JR., of the Burley Tobacco Growers Co-Operative Association, Huntington, W. Va.

I have read the Record religiously for the past sixteen years, and it is needless for me to say that I cannot do without it now, even at several times the cost.

Just before I read my first copy of the Record, I was very much like most of the Young Virginians, ready to leave the "Old Commonwealth" for the North or West in quest of a better country latent with golden opportunities. When I was a boy attending free school, I read much about the North and West in our history and geography, while on the other hand, about all I learned of the South was, that it was a poor, swampy country, that the principal crops were cane and cotton and that the young men were leaving the South for more prosperous sections of the country. After reading the Record I found out so many things I had never known before and so much about my native state in particular, and the South in general, that I decided to stay right where I was. I did. During this time I worked, took an active part in all things pertaining to the upbuilding of my country and state, read the Record, was happy and contented until the fall of 1921 when W. P. G. Harding's (salvation deflation) anti-prosperity wave came along and swept me from the shows of my earnings.

For the past two years I have been associated with the Burley Tobacco Growers' Co-operative Association. In this work I have found the Record to be of untold value, as it has carried from time to time information regarding co-operative marketing, especially regarding cotton, and since the major principles in all co-operative associations are alike, these facts could be readily applied to our tobacco association. Not only have I read these articles to farmers, but also to chambers of commerce and rotary clubs of our towns and cities; and to the city man, the Record has a prestige that no other publication seems to possess.

I find conditions here, politically, similar to those in Virginia, that is, the people are trying to mix politics and business together.

Tariff is still the old bone of contention. It is the old relic of distinction of the parties. Our people will never realize what protection means until it is taken out of politics and given a fair trial. Tariff is a political question, not an economic one with our people. If a pair of shoes needs protection in Boston that old cow hide needs it in Texas. If the people know the need of protection in Boston, why can't the people in Texas learn it?

The South has always stood for party, often at the expense of prosperity, rather than take economic questions out of politics. The shackles of this condition must be broken and the coming young men of moral courage must remedy this cause. The old South needs a cleaning, politically, and we must choose men of moral character and integrity; men who will not put personal and party interest before they do the welfare of their country. Party in preference to prosperity must be relegated to the dumps.

You are certainly doing a great work and you are almost alone in your work. As Moses led the people of Israel out of the wilderness so you have led the people of the South out of the swamps to the most promising land in our country. Just keep it up; the young men are rallying to your call.

I am enclosing one dollar for two copies of the "Blue Book of Southern Progress." Unfortunately, I have not seen any copies of the last issues, but I don't intend to let it be the case again. I want to make one suggestion to you; I think you should have your picture made into the Blue Book. We readers want a picture of you—I do, I know!

A long life still lengthened with happiness and prosperity, are the wishes and tidings from a grateful reader.

[The editor of the Manufacturers Record appreciates all these commendations most highly, but he cannot feel that his picture would add to the value of the Blue Book. That space he believes can more profitably be given to facts about the South.—Editor Manufacturers Record.]

Foreign Element Not Wanted in South—Muscle Shoals Should Not Go to Henry Ford.

T. D. Love, Lingo Metal Works, Wilmington, N. C.

It has been my pleasure to read the MANUFACTURERS RECORD since 1892, when I began work under one of the finest genuine old Scotch-Americans that ever lived, S. P. McNair. He always insisted that each copy of the RECORD should be kept on his desk until the new copy arrived and then the previous copy should be filed so if he called for it we could immediately produce it for reference. I have continued to read it with a great deal of profit and pleasure ever since.

I want to thank you for the letter published in the issue of April 10, by W. B. Smith Whaley, as I think the state of South Carolina and the entire textile South owe a debt of gratitude to Mr. Whaley, who gave several of the best years of his life to the developing of the cotton mill construction and training the workers of the South. I would like very much to see his opinion of the Muscle Shoals lease published in the Record at some future date and I heartily agree that we don't want any large body of foreigners dumped in our South land where the whole prosperity is entirely due to its God-fearing people that can see His favor to them in beautiful skies, warm sun, wonderful seasons and plenty of all the necessities of life for man. They know they must fear Him and obey His commandments and love their fellowman if they are to be happy and prosperous.

It is a great pity that the good old Puritans and Quakers of Maine and Vermont and the other Northern states could not have had their emigrants come into their section of the country in numbers such that they could teach them to be genuine Americans, by which we mean God-fearing, honorable and law-abiding citizens. It is only natural that a God-fearing, plain and intelligent man should want to live and associate with the class of Americans we have in the South and especially in North Carolina where the people are descended from the highest type of God-fearing Scotch, Irish, English, Germans, Welsh and Dutch.

The Southerners make many errors but they are all of the head and few of the heart and while we extend to Mr. Ford the same courtesy and help we would to any other than coming to the South I think it is asking entirely too much to expect us to countenance the American Government giving any one man or company a hundred years' lease on the South's greatest water power.

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THE IRON AND STEEL SITUATION

Belief General of Turn for Better in Steel Trade— Readjustment in Progress.

Pirtsburgh, Pa., May 5—[Special.]—The steel trade remains in its stage of readjustment. Buying is light, production is declining and prices soften somewhat more each week. The readjustment can hardly be completed in less than two months, according to the calm judgment of observers, and that would bring the trade to July 1, a poor time for an upward turn. In some quarters the expectation is expressed that there will be an improvement in July but the more common view selects August as the month in which the turn will occur.

That a turn towards better things in steel really will occur is the common opinion. It is pointed out that far from there being anything fundamentally wrong with the general industrial situation the underlying conditions are all quite good, and the income of the country as a whole is so large, and employment is so full, that industry has a very substantial momentum, enough to carry it over the present rough stretch.

To identify the causes of the present reaction in steel is to find adequate reason for expecting a turn for the better in the not distant future. The common opinion is that the reaction in steel is due almost wholly to two things, the recent overproduction and, not the scandals uncovered at Washington, though malfeasance in office is not condoned, but the scandalous conduct of the United States Senate, in throwing mud indiscriminately.

As to the first cause, the overproduction in steel, that was of short duration, not giving rise to stocks that it will take long to liquidate. Steel ingot production in 1923 was 43,000,-000 tons, which is substantially as much as can be expected for a year, since there was full employment and the country worked as hard as it seems willing to work in consuming steel. In April production was at a 49,000,000 ton rate and in December at a 35,000,000 ton rate. The letter was probably under the rate of consumption, indicating that buyers' stocks were well liquidated by the end of the year. Then production suddenly rose to a rate of 50,000,000 tons in the first half of March, which was too much. Now the rate is down to 40,000,000 tons for certain, and is probably even lower than that. Actual consumption has decreased very little, but all jobbers and manufacturing consumers wish to have their stocks fully liquidated.

As to the second cause, the performances at Washington, these are recognized as chiefly political. The excitement will die out in time, the conventions will soon be held and Congress will probably adjourn indefinitely. By July or August politics and Congress will not be the disturbing elements they have been lately.

The decline in steel prices now in progress, and really moving quite slowly, is by no means strange. According to precedents the market was overripe for a decline. It had been in a more or less advancing condition for more than a year, from early in March, 1922, to late in April, 1923. Usually the steel market does not hold a very great length of time once it has reached a top. In the late months of last year the majority opinion, i.e., the opinion of nearly all buyers and of not a few sellers, was that prices would be lower by January 1. Instead, they firmed up, and the buying of January and February, which caused the overproduction, was based largely on renewed confidence in the permanence of the old steel prices. That renewal of confidence was harder to understand than is the present decline.

Considering the extreme lightness of demand in the past few weeks the steel market is really showing much resisting power to declines. Prices are merely sagging gently and in a few lines they have not thus far declined at all. Probably all lines except rails will have yielded somewhat before the decline ends, but no extremely low or profitless prices are expected. Bars, shapes and plates have softened a trifle more in the past week and are now quotable at 2.20c to 2.30c in ordinary lots, with the natural assumption that on large orders, when such develop, special concessions would be made. The market may eventually go to about 2.00c, or if it goes below that it may easily react.

Sheets are being shaded somewhat more by independents. The lower prices are regarded as cuts rather than ordinary declines, because the Steel Corporation continues to adhere to the old prices. It does not see a defined market such as it could meet, nor does the cutting of independents take business from it. Indeed, there is plain evidence that the independents have had many postponements, for according to their report they entered April with order books sufficient to provide them with a 90 per cent operation for more than a month and a half, they booked some business in April by the price cutting route, yet they are understood to have been operating at less than 60 per cent in the past fortnight.

Pig iron continues very dull, but prices are no lower, and appear to have been fairly well shaken out. Bessemer is \$22.50, basic \$21 and foundry \$21.50, valley.

The Keystone Coal & Coke Company, which represents nearly all of the Greensburg district, has reduced wages 15 to 20 per cent, experiencing no trouble. This is no criterion as to the Connellsville region, where conditions are different, and it is doubtful whether any of the regular Connellsville operators will reduce wages. The H. C. Frick Coke Company, the fuel subsidiary of the Steel Corporation, is altogether unlikely to take any action. Coke continues stagnant in the open market, with prices unchanged.

Birmingham Iron Interests Hopeful of Early Buying.

Birmingham, Ala., May 7-[Special.]-Furnace interests in the Birmingham district are strong in the belief that it will not be long before some actual buying of pig iron will start and that within a short while after the impetus is on there will be sold a considerable proportion of the probable make of the third quarter of the year. The quotations are still weak, ranging from \$22 to \$23 per ton, No. 2 foundry. The make in this district is to be increased by the blowing in of the Hattie Ensley blast furnace of the Sloss-Sheffield Steel & Iron Company at Sheffield. This company had a considerable tonnage of surplus iron on yards at the start of the year, but it has been well worked off; the belief is that during this month there will be active buying which will warrant a greater make. The Birmingham district in comparison with other iron producing centers appears to be in better shape; old contracts, added to by the numerous small-lot orders being received, warrant a steady make of iron.

The statistics for April will show a make of pig iron almost equal to the previous month, one furnace having undergone a change in the class of iron being manufactured. There are still 24 blast furnaces in operation, nine on basic, 13 on foundry and two on other class of iron. This does not include the Hattie Ensley furnace. Two other furnaces are in shape to take up iron making at once. Some little business is on the books for the third quarter, but not much.

Many of the soil pipe plants and foundries of the district are melting iron steadily and have a number of small contracts in hand. It is these interests which are buying in small lots and often, a hand-to-mouth plan. In some instances this buying is not only being carried on for the purpose of just meeting actual needs but to get a basis on which to estimate on contracts. No little amount of the business that is now

being received carries with it instructions to deliver quickly, and this accomodation is given. There is further dwindling of the surplus iron on the yards as a whole, one or two of the smaller companies piling some iron and the larger and more active concerns moving much from the stocks. One or two companies are seeing a little scarcity of certain grades and production is being looked to. This is also one of the reasons for the blowing in of the Hattie Ensley furnace by Sloss-Sheffield.

As to the weak quotations for pig iron, the statement is made that very little iron is being sold at the lowest price, that the average price is around \$23 per ton, No. 2 foundry. Inquiries have been received for a little tonnage of iron, but broad concessions are asked, below the \$22 mark. No announcement is made of negotiations being consummated in this district recently. Some little tonnage of iron has been sold for the period after July 1, but much more must be sold to carry the market to the fall elections. One of the fittings producers has found it necessary to curtail production and this program is reported in one or two other directions; but, on the other hand, there are several works reporting activity in operation and a larger production of their respective articles.

The cast iron pipe market is strong, especially with the pressure pipe. The several large sized pipe makers in this state and elsewhere in the territory, heavy consumers of pig iron, are getting in new business every day and have already a splendid start on the summer activity. Cast iron pipe is being shipped in every direction. There is no change in quotations. Indications also are strong for a large amount of business before the summer is well under way. This industry has had nearly two years now of steady production and many specifications are in sight on which bidding will be given attention.

The coal mining industry is feeling a little effect of the strike in West Kentucky, districts which have been getting coal from that territory asking for a little fuel from this state. The production is somewhat better now than it has been during the past three weeks. During the first three months of the year the coal production in Alabama was over 5,000,000 tons. The indications are that the production during the second quarter will be as good, if not better, and the summer activities may be placed on a sound footing.

Coke demand is good yet, though consumers are buying in the main in small lots with quick delivery. The quotations are firmer, foundry coke now selling at from \$6 to \$6.50 per ton, furnace coke at from \$5 to \$6. The foundries and shops are asking for quick deliveries on their small-lot purchases and are being accommodated.

The scrap iron and steel market is slow; deliveries being made are on old contract's. Quotations are weak but not much under the price list that has obtained for several weeks. Heavy melting steel is without activity. The Gulf States Steel Company, the largest consumer on the open market, has but three of its open hearth furnaces in operation. The Tennessee Coal, Iron & Steel Company furnishes its own old material.

Quotations for pig iron and iron and steel scrap follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$22.00 to \$23.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$22.50 to \$23.50; iron of 2.75 to 3.25 per cent silicon, \$23.00 to \$24.00; iron of 3.25 to 3.75 per cent silicon, \$23.00 to \$24.50; iron of 3.75 to 4.25 per cent silicon, \$24.00 to \$25.00; charcoal iron, f. o. b. furnace, \$32.00 to \$33.00.

OLD MATERIAL.		
Old steel axles	\$19.00 to	\$19.50
Old iron axles	20.00 to	20.50
Old steel rails	12.00 to	12.50
Heavy melting steel	13.50 to	14.00
No. 1 cast	20.00 to	20.50
Stove plate	15.00 to	16.00
No. 1 R. R. wrought	12.00 to	12.50
Old car wheels	16.00 to	17.00
Old tramcar wheels	17.00 to	18.00
Machine shop turnings	7.00 to	8.00
Cast iron borings	8.00 to	9.00
Cast iron borings (Chem.)	15.00 to	16.00

RAILROADS

A Good Year on a Tennessee Road.

In the annual report of the Nashville, Chattanooga & St. Louis Railway, President W. R. Cole tells the stockholders that the gross revenue from operations for 1923 was the largest of any year in the history of the company, this fact being due to the heaviest tonnage of freight ever handled on the lines. Passenger traffic, while good, was not a record breaker. The cost of transportation reflects more efficient operation, as there was a pleasing reduction, although the ratio of all operating expenses to gross revenue was 86.50 per cent, as compared with 85.93 per cent for the next preceding year. Nearly \$3,000,000 was expended during the period for roadway and equipment, about two-thirds of the total being for equipment, yet the expenditure per mile of road for maintenance of way and structures was \$3530, as compared with \$2678 for the year before. There is a marked improvement in the physical condition of the property. Reductions of grades made at McEwen and Tennessee City have resulted in increased efficiency of locomotives and more economy in moving freight. A new office building for the company is being erected at Nashville. It will have eight floors and a basement and will be built of steel and concrete with terra cotta and matt brick exterior finish. The principal additions to the equipment consisted of 7 Mikado type locomotives, 15 steel passenger cars and 1000 freight cars.

The comparative statement of income shows operating revenue, 1923, \$24,801,787; 1922, \$22,353,762; operating expenses, 1923, \$21,453,047; 1922, \$19,207,688; net revenue from railway operations, 1923, \$3,348,740; 1922, \$3,146,974; railway operating income after taxes, etc., 1923, \$2,642,169; 1922, \$2,709,083; gross income, 1923, \$3,399,453; 1922, \$3,406,-579; net income, 1923, \$1.628,805; 1922, \$1,680,521. Total assets, 1923, \$70,212,953; 1922, \$69,688,180.

A Short Line to Resume Operations.

It is expected that operation will be resumed about June 1 on the High Point, Thomasville & Denton Railroad, 36 miles long from High Point to High Rock, N. C. According to a report from High Point, where connection is made with the Southern Railway, practically all of the permanent way has been fully restored and improved with heavier rails, most of them being of heavy modern weight, and thousands of new ties have been laid. Arthur Kirkman is general manager.

To fulfil the equipment plans for the road about \$200,000 will be borrowed locally. Two new locomotives have been bought, giving the road three up-to-date engines, and a new steam shovel and ditching machine has also been purchased. The road connects at High Rock with the Winston-Salem Southbound Railway, which in turn connects with the Norfolk & Western Railway and the Atlantic Coast Line Railroad.

New Equipment.

During the first three months of this year the Class 1 railroads of the United States placed in service 37,652 freight cars and 661 locomotives and at the expiration of that period they had on order 69,298 freight cars and 520 locomotives, with car deliveries being made daily and frequent deliveries of locomotives. It has been estimated by railroad men that the equipment orders this year will amount to about 100,000 new cars and 1600 new locomotives,

The El Paso & Southwestern Railway has ordered 6 new Mountain type locomotives from the American Locomotive Works. From the American Car & Foundry Co. there have also been ordered 3 new dining cars and 3 new combination, baggage and lounge cars.

Baltimore & Ohio Quarterly Statement.

The Baltimore & Ohio Railroad's statement of earnings and expenses for the first three months of this year shows railway operating revenues, \$56,623,704; operating expenses, \$46,901,-605; net revenue from railway operations, \$9,722,099; net railway operating income, \$6,407,179, a decrease of \$4,105,477 as compared with the same period of last year, when there was an unusually large movement of traffic in the winter. Accompanying the statement is the following: "It will be noted that there has been a progressive decrease in expenses, with the exception of maintenance of way and structures, which for the three-month period shows an increase of \$1,210,000. It is explained that while the maintenance program for the current year is approximately the same in the aggregates as the preceding year, owing to the open season and favorable conditions a larger amount of work has been accomplished in the three months of the year and a larger proportion of the charges taken up in the period, which will be reflected in lower proportionate charges later on in the year." The operating revenues for March were \$19,675.976; operating expenses, \$15,690,265; net revenue from railway operations, \$3,985,711; net railway operating income, \$2,911, 618, which was a decrease as compared with March of last year of \$1,469,382.

Loadings of Freight Continue Large.

While loadings of revenue freight on the railroads are not running quite as high as they were at this time last year, they are very much ahead of the loadings in the spring of 1922, according to the car service division of the American Railway Association, which reports that during the week ended April 19 there were 876,923 cars loaded, which was an increase of more than 170,700 cars as compared with the corresponding week of 1922, and furthermore it was a decrease of only a little more than 81,000 cars for the same week last year, when there was a remarkably heavy rush of freight traffic. As compared with the week ended April 12 this year the decrease was but 4376 cars. Livestock loadings are increasing, the gain over the previous week being 558 carloads in a total of 28,-335. Loadings of miscellaneous freight also increased, the total for the week being 335,302 cars, an increase of 3511 cars. Ore loadings continue to show a steady increase, the total for the week being 16,581 cars, an increase of more than 2179 cars as compared with the preceding week. Since January 1 the total loadings have been 14,207,592 cars, an increase of 89,164 cars as compared with the same period of

Railroad Battalions for War Emergencies.

The Illinois Central Magazine says that two reserve units for the United States Army are being established on the Illinois Central Railroad System, one on its northern lines and the other on its lines in the South. Each is known as a battalion and has a peace strength of 161 men, or 322 men for the two units, this total including the officers. In each battalion there will be a headquarters platoon and three companies, one of the latter for operation, the other for maintenance of roadway, and the other for maintenance of equipment. Each battalion will be employed in time of war to operate to the best advantage an entire railroad division. Enlistment is for five years. These units are to be employed only on the call of Congress, not only on call of the President or of state authorities as in the case of the militia.

Freight Agent Appointed.

On May 1 R. S. Brantly was appointed contracting freight agent of the Seaboard Air Line Railway at Columbia S. C., with office at Room 3 Arcade Building, to succeed Louis H. Rivers, transferred.

Medical Examination for Railroad Men.

To encourage the preservation of health and increase the average length of life among the 211,000 workers on the Pennsylvania Railroad, a general notice has been issued urging every employe to undergo a complete examination as to physical condition at least once a year and at the company's expense. In order to make this possible, plans have been prepared by the Voluntary Relief Department, under the direction of Superintendent Eden B. Hunt, by which the corps of physicians constituting the company's medical examiners will be at the service of all employes for this purpose entirely without charge or cost. The instructions say in part: "The locomotive is inspected before each run and, at certain intervals, is given a thorough overhauling with the object of discovering and correcting the early evidence of wear and tear. * * * But that other mechanism, the human machine, worth infinitely more than any inanimate machine, is ofttimes allowed to go years and years without being tested or examined. No matter how robust and vigorous a person may seem to be, he should be examined to prevent the possibility of some stealthy and insidious disease gaining a foothold." The new provisions are entirely apart from the regulations requiring certain train service employes and others to undergo periodical tests of sight, hearing, etc., to insure fitness for their duties.

Illinois Central Earnings in 1923.

The annual report of the Illinois Central Railroad for 1923 shows a large gain in gross as compared with 1922, but expenses were also heavily increased, with the result that the surplus for the year, although large, was not so great as for the preceding year by over \$800,000. The income statement shows operating revenues, \$165,626,981; increase as compared with 1922, \$10,766,594; operating expenses, \$132,429,231; increase, \$13,299,962; operating income after expenses and taxes, \$23,500,782; decrease, \$1,005,956; net operating income after deducting rentals, \$22,906,244; decrease, \$2,214,884; gross income, \$29,722,983; increase, \$497,390; net income, \$15,485,073; decrease, \$604,603; surplus for the year, \$7,077,543; decrease, \$877,504.

Mississippi Stop Law in Effect.

Jackson, Miss.—Mississippi's law requiring drivers of all motor vehicles using the public highways to stop before crossing any railroad track that intersects the public highway at grade became effective May 1. Mississippi has thus joined Tennessee, Virginia and North Carolina in the effort to decrease the number of collisions between automobiles and trains. Motor vehicles must stop not less than ten feet nor more than fifty feet from the track and the drivers must look for approaching trains. All railroads are required to erect large signs, bearing the words, "MISSISSIPPI LAW STOP," on the right side of the highway fifty feet from every crossing.

Chesapeake & Ohio Earnings 1923.

The income statement of the Chesapeake & Ohio Railway Co. for 1923 shows total operating revenues of \$101.975,797; 1922, \$83,511,561; operating expenses, \$78,889,776; 1922, \$66,-118,030; net operating revenue, \$23,086,021; 1922, \$17,393,531; net operating income, \$19,135,355; 1922, \$14,410,329; gross income, \$21,351,403; 1922, \$16,888,832; net income, \$8,979,430; 1922, \$6,523,670; surplus after dividends, \$5,572,097; 1922, \$3,808,336. Total assets of the company are \$456,578,053.

Western Maryland's Income Last Year.

The income account of the Western Maryland Railway covering the year 1923 shows operating revenue, \$23,055,036; 1922, \$18,575,350; operating expenses, \$17,716,434; 1922, \$14,-730,157; operating income after expenses and taxes, \$4,334,-

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 $238\,;\ 1922,\ \$3,239,665\,;\ gross\ income,\ \$4,810,087\,;\ 1922,\ \$3,197,666\,;\ net\ income\ \$1,671,168\,;\ 1922,\ \$33,398\,;\ surplus,\ \$1,671,168\,;\ 1922,\ \$49,745.$ Total assets of the company, $\$158,065,594\,;\ 1922,\ \$155,504,198,$

Ballast Rock Crushing Plant of Gulf, Colorado & Santa Fe Railway Company at Brownwood.

In a letter to the MANUFACTURERS RECORD discussing the removal of the ballast rock crushing plant of the Gulf, Colorado & Santa Fe Railway from Coleman, Texas, and its re-erecting at Hall Mountain, near Brownwood, Texas, B. McGrew of the Chicago office of Allis-Chalmers Manufacturing Co. of Milwaukee, Wis., which will design the plant and supervise the installation of machinery, writes:

"The new plant of the Gulf, Colorado & Santa Fe Railway Co. at Brownwood will contain the same crushers as were originally installed in the plant at Coleman, namely, a No. 8-K primary crusher and a No. 6-K and No. 5-K secondary crushers. The arrangement of the plant will, however, be changed considerably, as the Brownwood location is a hillside one, offering an opportunity for a semi-gravity plant.

"Primary No. 8 crusher will be installed just below the level of the quarry floor, and the product of this machine will be carried by means of a belt conveyor to a 60-inch scalping screen. The oversize from this screen will pass by gravity into the two secondary crushers and their product will be conveyed back to the first conveyor, thereby returning the material to the same scalping screen. Finished material, which will be from ballast size to dust, will be carried on a long belt conveyor to the screen house and storage bins at the foot of the hill. The ballast will be separated from the dust in stwo 48-inch revolving screens and passed by gravity into different compartments, in the storage bins. From these bins material will be loaded directly into ballast cars.

"The plant will be driven from a central point by means of the same Corliss engine which drove the plant at Coleman. Power distribution to the distant parts of the plant will be accomplished by means of American-type rope drives. The boilers in the power plant will be fired by oil."

Good Business for Last Year and Good Outlook.

The varied activities of the William Cramp & Sons Ship and Engine Building Company of Philadelphia showed satisfactory business during the year 1923, with prospects of a continued demand in reasonable volume in all lines except new ship construction, according to the annual report to the stockholders April 24 by President J. Harry Mull. It was announced that plans have been effected for concentrating manufacturing facilities and for co-ordinating management and sales activities. Notable work was done during the year in the construction of machinery for hydro-electric power development, and the branch of the company devoted to the manufacture of oil engines, ice machines and similar products had the most satisfactory year in its history.

Mr. Mull was re-elected president and general manager by the directors, all of whom were re-elected by the stockholders. The board also re-elected Vice-President H. Birch-ard Taylor, Secretary-Treasurer George D. Martin and Assistant Secretary Roland L. Howe. John P. Ramage, former chief accountant, was elected assistant treasurer. The report points out that there is every indication hydroelectric power development will continue at an increasing rate in the future. The numerous uses of electricity have resulted in an unprecedented and continually increasing demand for hydro-electric power, and considerable expansion of existing companies may be expected, as well as execution of new projects already provided for.

DeSoto parish, Louisiana, has voted a bond issue of \$1,000-000 to build gravel road. Work will begin at once.

TEXTILE

\$5,000,000 Textile Corporation to Build Mills in Texas—25,000-Spindle Mill at Dallas.

Dallas, Tex.—A charter has been secured by the Texas Textile Mills, with an authorized capital stock of \$5,000,000, for the purpose of building cotton mills in Texas. The first plant to be erected will be a 25,000-spindle mill at Dallas, work to begin as soon as final organization of the company has been effected. It will produce gray goods.

Among those interested in the enterprise, are Nathan Adams, president of the American Exchange National Bank of Dallas; Gus F. Taylor, president of the Citizens National Bank, Tyler, Tex.; M. L. Cannon, Charlotte, N. C.; L. W. Robert, Jr., textile engineer, Atlanta, Ga., and others.

Hannah Pickett Mills Enlargement.

Regarding the proposed enlargement of the plant of the Hannah Pickett Mills at Rockingham, N. C., the Manufacturers Record is advised that the Hopedale Manufacturing Company of Milford, Mass., is building 800 looms which are to be installed as a complement of 38,000 spindles made by the Whitin Machine Works of Whitinsville, Mass.

As previously outlined, a new building will be erected, 225 by 338 feet, for which T. C. Thompson & Bros. of Charlotte, N. C., have recently been awarded contract. The cost of the structure will be about \$250,000. Machinery will be electrically driven, the power house to cost \$50,000 and produce 1700 available horsepower.

Purchases Silk Mill at Petersburg.

Petersburg, Va.—The silk mill here formerly operated by John N. Stearns & Co. of Elmira, N. Y., and later discontinued, has been purchased at public auction by Warner Moore of Richmond. Thirteen buildings of various sizes, with a total floor space of 60,000 square feet, are included in the purchase, together with water rights extending up the Appomattox River for several hundred yards. The plant has water power machinery capable of developing 450 horse power, and steam power equipment of the same capacity.

No announcement has been made by Mr. Moore as to the use he will make of the property.

Lydia Cotton Mills Installing Light and Power.

Clinton, S. C.—Lockwood, Greene & Co., engineers, of Atlanta and Boston, have been commissioned by the Lydia Cotton Mills here to design and supervise the installation of power and lighting in their old mill as well as the complete electrification of the new extension which was designed and constructed under the supervision of Lockwood, Greene & Co.

The present mill is equipped with 22,544 spinning spindles, 1000 twisting spindles and 500 looms for the production of wide print cloths, and 3s to 6s soft mule twist skeins.

E. F. Woodside Now President of South Carolina Cotton Manufacturers' Association.

Greenville, S., C.—Following the death of James D. Hammett of Anderson, late president of the South Carolina Cotton Manufacturers' Association, E. F. Woodside of this city, vice-president of the association, has automatically succeeded to the presidency. Mr. Woodside is president of the Easley Cotton Mills of Easley, S. C., and vice-president and secretary of the Woodside Cotton Mills Co. of this city.

Reports state that the Board of Trade of Oxford, N. C., is negotiating with a New York company relative to the establishment of a silk mill at Oxford.

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GOOD ROADS AND STREETS

Nine Road and Six Bridge Projects in Missouri to Cost Over \$325,000.

Jefferson City, Mo.—Bids have been opened by the State Highway Department here for nine road and six bridge projects in Lafayette and Webster counties, on which the lowest estimates total \$325,155. Six sections of Federal and state project No. 228 consisting of earth grade are located in Lafayette county, the following contractors submitting lowest bids: Albert Hood, Independence, Kans., at \$31,221 for section A of 3.856 miles; L. A. Woods Construction Co., Smithville, Mo., at \$26,581 for section B, 4.055 miles; at \$38,757 for section D, 4.204 miles, and at \$40,405 for section E, 3.865 miles; H. H. Hamenkraff of Kansas City, Mo., at \$22,452 for section C, 4.050 miles, and A. W. Mosley, Kansas City, at \$32,022 for section F, 4.883 miles.

C. E. Johnson & Son, Buffalo, Mo., submitted lowest bid at \$33,855 for 4.793 miles of earth grade in Webster county, on Federal and state project No. 240 B, while M. E. Gillioz, Monett, Mo., presented bid at \$32,299 for 3.892 miles on project No. 240 C. The Bryant-Rollins Road Company, Waynesville, Mo., submitted bid at \$25,385 for 3.811 miles on project 240 D.

The following are the lowest bidders for bridges: Cook-O'Brien Construction Co., Kansas City, at \$8328 for five 30-foot I-beam spans, at \$5630 for three 30-foot I-beam spans, at \$4453 for two 12-foot reinforced concrete slab spans, and at \$5890 for three 20-foot reinforced concrete slab spans, all in Lafayette county. M. E. Gillioz, presented bids at \$9012 and \$8865, respectively, for an 80-foot steel truss span in Webster county, and for one 35-foot reinforced concrete deck girder span, with four 20-foot concrete slab spans in Lafayette county.

Duval County Lets Contracts for Two Bridges at Cost of \$434,000.

Jacksonville, Fla.—Contracts have been awarded to A. Bentley & Sons Company, Jacksonville, and the American Bascule Bridge Corporation of Pensacola for the construction of McGirt's Creek bridge to cost \$227,402, and to the same contractors for the construction of Trout Creek bridge to cost \$206,719. The former structure will have a total length of 978 feet, not including approach fills, and will consist of twenty-two 41-foot concrete girder spans on concrete piers, with double-leaf rolling-lift bascule span, providing a 53-foot clear waterway. The roadway will be 28 feet wide, including a street railway line, and will be flanked on each side by 4-foot sidewalks.

Trout Creek bridge will have a total length of 1133 feet, with 53 feet of clear waterway in the draw. It will consist of twenty-three 47-foot concrete girder spans on concrete piers, with double-leaf rolling-lift bascule span. There will be a 20-foot roadway and two 4-foot sidewalks. Both structures will be built according to plans and specifications prepared in the office of C. S. Coe, county engineer, who will supervise construction.

Virginia Wants Bids on 24 Miles —To Cost About \$800,000.

Richmond, Va.—Bids will be received at the office here of the State Highway Commission until May 13 for road work embracing a total of nearly 24 miles to cost about \$800,000. The work will include 2,3 miles in Hanover county from Ashland south, alternate bids to be asked on concrete and gravel sub-base and asphaltic concrete base and sheet asphalt top. This contract will be let in conjunction with another project of 1.4 miles from Ashland north on the same highway.
Other projects embrace 3.6 miles in Buchanan county, 3 miles in Bedford county, 1.6 miles from a point five miles east of Luray to the Rappahannock county line, 3.1 miles near Lawrenceville in Brunswick county, 6.6 miles of top-surfacing from Charlotte Courthouse to Phænix, and about 2.2 miles from Alexandria to a point in Fairfax county.

Over 300 Miles of Kentucky Roads to Be Resurfaced—Bids Invited.

Frankfort, Ky.—Bids will be received by the State Highway Commission at the office of Joe S. Boggs, State Highway Engineer, this city, until May 20, for cleaning the surface and applying bituminous material on more than 300 miles of roads in various counties. The mileage and names of counties follow: Three sections aggregating 14.8 miles in Bourbon county; 8.3 miles in Rockcastle, two sections in Bracken, 16.6 miles; 7.7 miles in Clark, 9.6 miles in Garrard, two sections in Anderson county, 8.16 miles; four sections in Boyle, 16.14 miles, 2.8 miles in Warren, 11.41 miles in Madison-Estill, and two sections in Jefferson county, 17.4 miles.

There will be two sections in Nicholas county, 8.3 miles; 2.3 miles in Washington, two sections in Nelson, 14.55 miles; 5.12 miles in Boyd, 6.12 miles in Greenup, 4.5 miles in Marion, 10 miles in Christian, two sections in Harrison county, 10.6 miles; 8.091 miles in Edmonson, 3.85 miles in McCracken, 7.3 miles in Whitley, 4.8 miles in Pendleton, 4.15 miles in Bell, two sections in Scott, 5.2 miles; 4.34 miles in Todd, 11.15 miles in Hart, two sections in Franklin, 18.1 miles; 6.84 miles in Madison, 16.5 miles in Campbell, three sections in Woodford, 27.30 miles; two sections in Montgomery, 12.28 miles; 2.9 miles in Fayette, and two sections in Mercer county, 10.5 miles.

North Carolina to Receive Bids on 109 Miles—Program Also Includes Bridge Project.

Raleigh, N. C.—A tentative list of projects, on which the State Highway Department will receive bids until May 20, includes the construction of 109 miles of roads and bridges, exclusive of bridge project No. 580-B. This list embraces the following: Twelve miles of paving in Bertie county; 16.66 miles of grading and top soil or sand-clay surfacing in Gates county; 9.9 miles of grading and bridge construction in Craven county; .51 mile of hard surfacing in Johnston county, and 5 miles of paving in Pamlico county.

For 8.13 miles of grading and hard surfacing in Brunswick county; 7.5 miles of grading and bridge construction in Durham county; 4.29 miles of grading and bridges in Franklin county; 7 miles of grading and bridges in Granville county; 9 miles of hard surfacing in Cabarrus county; 11 miles of grading and bridges in Wilkes county; 13.4 miles of hard surfacing in Yadkin county, and 4.89 miles of paving in Burke county.

Bridge project No. 580-B covers the construction of a bridge over Deep River near Randleman.

Greensboro to Expend \$500,000 for Widening and Paving Street.

Greensboro, N. C.—Contract has been awarded to the Murray Construction Co., Knoxville, Tenn., for widening and paving Greene street in this city at a cost of about \$500,000. The work will consist of widening and paving 22,000 square yards with sheet asphalt on a six-inch concrete base and placing 7200 feet of stone curb. P. C. Painter is the city manager.

\$500,000 for 150 Miles of Improvements.

Winnsboro, S. C.—The Highway Commission for Fairfield county, Gordon A. Johnstone, secretary, Winnsboro, plans to improve 150 miles of roads in various parts of the county, construction to include sand-clay and top soil roads and concrete bridge. Engineering details are being handled by the Spartanburg office of Lockwood, Greene & Co., and the cost of construction will be about \$500,000.

Lincoln County, Oklahoma, Considering \$1,500,000 Road Bonds.

Chandler, Okla.—Lincoln county is considering an election on bonds for the purpose of building a section of the Ozark Trail from the Creek county line to the Oklahoma county line, a distance of about 35 miles. It is also proposed to build another road north and south from line to line. Date of the election has not been determined, nor has the amount of the bond issue been decided, but it is thought \$1,500,000 will be asked.

This county expects to receive Federal and state aid, matching its bond issue, which would mean an expenditure of \$3,000,000 for roads. Construction of the county's section of the Ozark Trail would provide a paved highway from Tulsa to Oklahoma City.

Report Covering Half Century of Municipal Development.

Pine Bluff, Ark., is about to issue one of the most complete reports on municipal development and improvements ever published by a municipality in the South or elsewhere. The report was prepared by Frank H. Allen, City Engineer of Pine Bluff, and covers the city's progress from 1870 to the present day.

It is stated in this report that on January 1 of this year the city had 32 miles of paved streets, 54 miles of sidewalks, 61 miles of curbs and 53 miles of sewers, all of which would indicate that Pine Bluff is to be classed among the more progressive of Southern communities.

A feature of the paving has been the moderate expenditure needed for maintenance. There are instances where pavements have served the city for a number of years without requiring any repair, except when it was necessary to make openings in order to reach the underground pipe systems. Pine street, from Fourth to Tenth, which was paved with two inches of Texaco asphalt on a six-inch cement concrete foundation in 1915, has not had any maintenance in its nine years of service. Although it is located in the residential district of the city, this pavement has been subjected to fairly heavy traffic. It was constructed under the supervision of Mr. Allen, the present engineer, by the Kaw Paving Co., Topeka, Kans.

Visit of Latin-Americans to the South.

An audience with President Coolidge and two days of entertainment, featured by a luncheon at the Pan-American Union and an afternoon down the Potomac River, have been arranged for the members of the Pan-American Highway Commission when they assemble in Washington June 2. Thirty-eight men, representing twenty Latin-American nations, will make an intensive field study of Highways and transportation in the United States as guests of the Highway Education Board and associate organizations in a three-week tour over the highways of this country.

After a day in Washington, the commission will entrain for Raleigh, N. C., the first stop on the trip, on the evening of Tuesday, June 3. The itinerary will include visits to many of the educational institutions, as well as actual observation of field conditions.

Maryland to Borrow \$1,800,000 for Roads and Bridges.

Annapolis, Md.—John M. Dennis, State Treasurer, will receive proposals at his office in this city until June 11 for two issues of certificates of indebtedness aggregating \$1,800,000. One issue will be for \$1,500,000 and will be known as Lateral and Post Road Loan of 1924, the other will be for \$300,000 and will be known as Bridge and Grade Crossing Loan of 1924.

The certificates will be issued in denominations of \$1000, with coupons attached, and will be subject to registration. They will bear interest at the rate of 4½ per cent, payable semi-annually on the 15th of December and June. The principal of the loan will be payable upon the serial annuity plan.

Callahan County Road to Cost \$235,000.

Baird, Texas.—Callahan county, Victor B. Gilbert, county judge, has awarded contract to the Tibbetts Construction Co., Mineral Wells, Texas, and to the McCall Engineering Co., Waco, for the construction of 9.62 miles of state highway No. 1, from the Callahan-Eastland county line to the Bankhead highway. The work involved will consist of grading, structures and rock base with asphalt macadam surface. T. H. Webb, county engineer, will supervise construction.

Wichita County, Texas, D. B. Sartin, county judge, Wichita Falls, Texas, has voted \$500,000 bonds for the construction of roads in Precinct No. 4.

The board of commissioners of Huntington, W. Va., will receive bids until May 15 to grade, curb and pave portions of High Drive, 5th street, 33d street and Williams avenue. A. B. Maupin is the city engineer.



PINE STREET, PINE BLUFF, ARK. PAVED IN 1915 WITH TEXACO ASPHALTIC CONCRETE,

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LUMBER AND BUILDING MATERIALS

Lumber Shipments Increase.

Washington, May 1—As reflected by reports of 380 of the larger commercial mills of the country that make comparable weekly reports, the national lumber movement, says the National Lumber Manufacturers' Association, was larger in shipments last week and smaller in production and new business than for the preceding week. All three factors were less than for the corresponding week of 1923, when 22 fewer mills reported.

The unfilled orders of 264 Southern pine and West Coast mills were 559,275,730 feet, as against 595,233,291 for 266 the week before. Separately, the Southern pine group, 139 mills, reported unfilled orders as 245,107,345 feet, compared with 253,656,380 the previous week; 125 West Coast mills had unfilled orders amounting to 314,168,385 feet, as against 341,576,911 for 127 mills a week earlier.

Altogether the 380 comparably reporting mills had shipments of 101 per cent and orders of 84 per cent of actual production. For the Southern pine mills these percentages were, respectively, 104 and 93, and for the West Coast mills 118 and 88. Of the comparably reporting mills, 360 (having a normal production for the week of 224,363,914 feet) reported production 103 per cent of normal, shipments 105 per cent, and orders 86 per cent thereof.

The following table compares the national lumber movement as reflected by the reporting mills of seven regional associations for the three weeks indicated:

		Corresponding	Preceding Week
	Past Week	Week 1923	1924 (Revised)
Mills	380	367	389
Production	244,132,293	247,405,915	245,800,453
Shipments	246,254,701	247,312,756	235,326,874
Ordors	205 312 003	225 990 250	213 128 707

The following figures compare the lumber movement for the first seventeen weeks of 1924 with the same period of 1923:

		Production	Shipments	Orders
1924		3,913,760,123	3,935,576,130	3,784.077,504
		3,754,477,293	4,214,780,838	4,199,150,789
1924	Increase	159,282,830		
1924	Decrease		279,204,708	415,073,285

The mills of the California White and Sugar Pine Association make weekly reports, but they are not comparable in

respect to orders with those of other mills. Consequently, the former are not represented in any of the foregoing figures. Twelve of these mills reported a cut of 9,937,000 feet last week, shipments 9,973,000 and orders of 13,498,000. The reported cut represents 30 per cent of the total of the California pine region.

The Southern Pine Association reports from New Orleans that of the 91 mills reporting running time, 75 were on full time, including 10 reporting over time, 1 was shut down, and the rest operated from one to five days. For 139 mills shipments were 3.71 per cent below actual production, current orders 7 per cent below actual production and 10.33 per cent below shipments.

The Western Pine Manufacturers' Association of Portland, Ore., registers a noticeable increase in production last week as compared with the previous week, and even exceeded last year's cut. Shipments fell off a little and orders gained, but both these factors are noticeably behind this week of last year.

The California Redwood Association of San Francisco reports a slight reduction in current output, but it is more than 10 per cent ahead of last year. Shipments declined slightly but orders showed a pronounced gain, though both trailed behind last year.

The North Carolina Pine Association of Norfolk, Va., representing 40 mills from Virginia to Alabama, inclusive, reports a production of 3,000,000 feet larger than at this time last year when only 28 mills reported, but shows a pronounced decline from the previous week. Shipments declined about 30 per cent, and orders somewhat.

The Northern Pine Manufacturers' Association of Minneapolis fell off in production over 10 per cent, but is running well ahead of last year. Shipments gained a little, and new business fell off a little, both being more than last year.

The Northern Hemlock and Hardwood Association of Oshkosh, Wis., increased its softwood cut a trifle, but it was less than last year. Shipments were about the same as for the previous week, but new business declined about 30 per cent, the former being on a par with last year at this time, and the latter being about 50 per cent less.

The West Coast Lumbermen's Association wires from

LUMBER MOVEMENT FOR SEVENTEEN WEEKS, AND FOR WEEK ENDING APRIL 26

	Production 1924	1923	Shipments 1924	1923	Orders 1924	1923
5outhern Pine Association: Total	275,983,608	$\substack{1,271,605,020\\76,778,176}$	$1,259,864,309 \\ 82,780,705$	$1,368,801,765 \\ 81,289,600$	$1,227,272,733 \\ 74,231,670$	1,397,574,407 $73,723,792$
West Coast Lumbermen's Association: Total	687,772,947 $95,014,612$	$\substack{1,633,444,657\\107,284,862}$	1,731,334,416 $112,556,496$	$\substack{1,872,326,980\\112,730,696}$	1,617,433,373 83,747,533	$\substack{\textbf{1,840,083,967}\\94,449,450}$
Western Pine Manufacturers' Ass'n: Total	$\frac{118,321,000}{37,899,000}$	$\begin{array}{c} 345,620,000 \\ 37,628,000 \end{array}$	$\substack{438,858,000\\25,967,000}$	$\substack{439,608,000\\29,249,000}$	$\substack{429,875,000\\22,175,000}$	$\substack{432,700,000\\31,050,000}$
California Redwood Association: Total	149,496,000 9,580,000	$\substack{132,772,000\\8,516,000}$	$\substack{129,714,000\\8,143,000}$	$\substack{152,506,000\\9,494,000}$	$\substack{128,307,000\\7,461,000}$	$173,191,000 \\ 11,120,000$
North Carolina Pine Association: Total	$136,790,768 \\ 7,943,450$	$\substack{144,956,566\\4,845,877}$	$\substack{134,673,805 \\ 6,347,300}$	154,979,405 4,978,560	$\substack{125,470,398\\6,308,800}$	$\substack{140,331,415\\3,445,008}$
Northern Hemlock & Hardwood (Softwood) Total	$34,342,000 \\ 696,000$	37,962,000 766,000	* 37,480,000 1,323,000	$\substack{42,125,000\\1,339,000}$	32,531,000 870,000	41,089,000 1,821,000
Northern Pine Manufacturers' Ass'n: Total Week (8 mills)	$\substack{124,354,800 \\ 10,364,600}$	$\substack{129,274,000\\9,504,000}$	144,463,600 7,477,200	$\substack{133,219,688\\6,534,900}$	163,448,000 9,612,000	124,447,000 9,091,000
General total for 17 weeks: (Softwood)	827,061,123	3,695,634,293	3,876,388,130	4,163,566,838	3,724,337,504	4,149,416,789
Northern Hemlock & Hardwood: (Hardwood) (17 weeks)	86,699,000	.58,843,000	59,188,000	51,214,000	59,740,000	49,734,000
	160,855,000 244,132,293 not included	246,254,701 in totals, because	242,904,000 247,312,756 "orders" not rep	247,312,756 ported.	205,312,003	225,990,250

Seattle that the production of 125 mills reporting for the week ending April 26 was 11 per cent above normal, while new business was 12 per cent below production, and shipments were 34 per cent above new business.

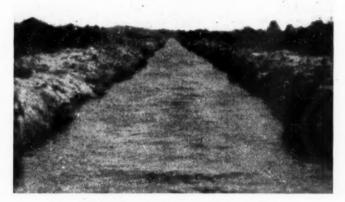
Portland Cement in Moving Pictures.

"The story of Portland Cement" is the latest addition to the series of industrial motion picture films released by the Department of the Interior, through the Bureau of Mines. It was prepared, in cooperation with the Portland Cement Association, in commemoration of the 100th anniversary of the invention of Portland cement, in 1824. The film shows "more than 1000 uses" to which Portland cement is put including building construction, highways and sculpture.

MECHANICAL

New Ditch Blasting Method

During recent months rather extensive demonstrations have been made in the field of blasting large ditches with dynamite. In fact, it has now been proved by actual experience that drainage ditches 24 feet and more in width can be blown easily by the explosive. To accomplish this two and sometimes three rows of cartridges are put down. They are



COMPLETED DITCH 24 FEET WIDE.

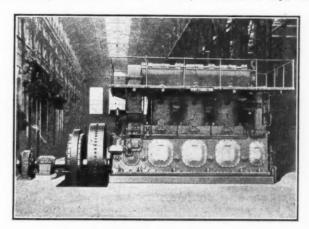
then shot, in soil which permits it, by the propagation method, this new method and the new type of ditch, it is stated, proving very economical. The ditch shown in the accompanying illustration was blasted at Sapelo Island, off the coast of Georgia. It is 24 feet wide at top, 18 feet wide at bottom, 5 feet deep. Its cost was 69 cents per foot or, 17½ cents per cubic yard. W. B. Alford of the du Pont Company of Wilmington, Del. supervised the blowing of the ditch.

New Engine for Light and Power Makes Long Run.

Owners of engines and users of power throughout the country, and in fact everywhere, will be interested in the report of a continuous run of 202 days under actual working conditions for a Worthington-Snow Diesel engine at Horton, Kan. The engine, which was built by the Worthington Pump and Machinery Corporation, 115 Broadway, New York, for the city of Horton, is a standard 562 horsepower, four cycle, air injection-type machine, and it operates at 225 revolutions per minute for municipal lighting and power purposes. It drives an alternating current electric generator in parallel with another unit, which is evidence of close governing as well as continuity of performance during the whole period. The engine has three cylinders, each 22½ by 22½ inches, and of the so-called square type. The pistons are air-cooled. Lubrication is forcibly fed to all parts of the machine. In view

of the fact that it is not generally known that engines of the Diesel type are able to operate continuously without stop, the length of this run becomes of wide interest.

The company quotes from a letter written by J. J. Lindsay of Horton, Commissioner of Finance, in which he says that



THE NEW ENGINE AS INSTALLED.

the rates charged for light have now been reduced materially and that the engine must be given the credit for the reduction. In addition to this an ample supply of electricity is made and the municipality gets a handsome profit out of its plant. Before the Diesel engine was installed the plant was steam operated.

FOREIGN NEEDS

[The Manufacturers Record receives many letters from abroad asking for information about American goods, and others, from men who wish to represent American houses. Without assuming any responsibility for these concerns, we publish a summary of the foreign letters of inquiry from week to week.]

Would Represent American Firms.

Gian Chand Mehra & Co., Lahore, India.—Desire to act as representatives for a few firms covering lines of trade as follows: Lamps and lanterns, glassware, general merchandise, hardware, lubricating oils and greases, etc. References.

Hardware, Toys, Etc.

Jacobo Praschnik, Havana, Cuba.—"I am very much interested in the import of hardware, toys and other articles made in the United States and Germany, and I would appreciate a list of firms producing such articles so that I could import them direct from the factories."

Engineering and Manufacturing.

J. E. FORTUNA & A. PATRI, engineers and manufacturers, Bandera 618, Casilla 3158. Santiago de Chile—Are manufacturers of aluminum, bronze, copper and zinc articles and desire to get in touch with manufacturers or first-class houses (not commission houses) who sell the various articles in which they are interested, in order to either purchase direct or to obtain agencies for the whole Pacific, Chile, Peru and Ecuador. Mr. Fortuno will be in New York late in April or in May.

American Goods Esteemed in Rumania.

Herm. Landesmann, Str. Smardan 24, Bucarest, Rumania.—Advises that American industry, which is in high esteem, plays only a small part in the importation of goods to Rumania, and that there should be established in Bucarest an American trade agency with one or two export representatives to place orders after they have carefully studied the demands of the country. This would facilitate regular intercourse with various firms and also contribute toward opening trade connections with neighboring States.

American Flour in Demand.

Bensussan & Sides, P. O. Box No. 139, Salonica, Greece.—"Big business could be concluded in our place on the following American brands of flour: Nelson, Viola, Canada Best, Byron, Grand Prix, Orlando, Three Stars, Verona, Vesta, Realto, Dorum. We should feel very obliged if you would induce some important American mills and export houses of first-class standing and capable of exporting this produce on a great scale to send us offers with samples c. i. f. Salonica, including all war risks. Further, you might please let us have a complete list of names and addresses of the most important mills and export houses producing or handling flour."

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CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprise already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Fla., Fort Lauderdale—Details under Miscellaneous Construction.

Fla., Fort Pierce-Details under Water Works.

Fla., Key Largo—Monroe County receives bids June 5 to build Key Largo-Dade County bridge, and roads and bridges extending from Stock Island to Saddle Bunches; D. Z. Filer, County Clk.

Fla., Miami—Details under Road and Street Construction.

Ga., Sylvania—Screven County Commrs. receives bids May 29 to furnish material, labor and equipment for concrete bridge over Beaver Dam Creek, 5 mi. northwest of Sylvania, on Sylvania—Waynesboro Highway, 525.83 cu. yds. Class A concrete, 68,231 lbs. reinforcing steel, 719 cu. yds. wet and dry excavation; County to furnish sand and cement; plans, etc., on file; J. S. Mills, Chmn.

Ga., Valdosta—Lowndes County let contract to F. M. Hill for 5 or 6 concrete bridges on National Highway project north of city. Address County Commrs.

La., Lafayette—Fred C. Hannaford, Morgan City, La., was awarded contract at \$30,000 for concrete and steel bridge on Old Spanish Trail about 1 ml. east of Lafayette.

Missouri-State Highway Dept., Jefferson City, receives bids May 20 for 12 bridge projects as follows: No. 208-D, Bollinger County, over drainage ditch, Sta. 800 plus 67, one Sec. 17, Carter County, over Brushy Creek, Sta. 3 plus 45, two 24-ft. deck girder super-structure only; Chariton County, 2 sections, R10-S32, over Overflow Chariton River, Sta. .925 plus 00, fifteen 20-ft. slabs; over Middle Fork Chariton River, 937 plus 50, two 45-ft. and one 25-ft. deck girder spans; Cooper County, 2 sections, 244-B, over Long Branch, Sta. .373 plus 00, three 20-ft. slabs; 244-C, over Overflow Lamine River, five 20-ft. slabs; R51-S3A, Perry County, over drainage ditch, Sta. 8 plus 50, three 40-ft. deck girder spans; R4-S68, Scotland County, over stream, Sta. 744 plus 37, two 12-ft. and 6-ft. boxes; Wayne County, 4 sections, R23-S8, over Cedar Creek, Sta. 61 plus 17, one 40-ft. and two 30-ft. deck girder spans; R34-S14, over Black Bear Creek, Sta. 390 plus 70, two 10ft. and 5-ft. boxes; R34-S14, over Polar Bear Creek, Sta. 371 plus 30, three 12-ft. and 6-ft. boxes; R34-S14, over Little Bear Creek, Sta. 302 plus 85, two 10-ft. and 5-ft. boxes; B. H. Piepmeier, Ch. Engr.

Missouri—State Highway Dept., Jefferson City, received low bids for 6 bridge projects as follows: Federal and State Project 240-C, Webster County, over Niangua Creek, on road from Springfield to St. Louis, M. E. Gillioz, Monett, Mo., \$9012; Lafayette County, 5 bridges on road from Kansas City to St. Louis; 228-A, over Chicago and Alton R. R. tracks, M. E. Gillioz, \$8865; 228-B, over

Wichit Creek, Cook-O'Brien Construction Co., Kansas City; 228-E, over Milky Branch, Cook-O'Brien Construction Co., \$5890; 228-D, over Davis Creek Drainage Ditch, Cook-O'Brien Construction Co., \$8328; over drainage ditch, Cook-O'Brien Construction Co., \$5630.

N. C., Randleman—State Highway Comn., Raleigh, receives bids May 20 for bridge over Deep River near Randleman on Route 70, Project No. 580-B; Chas. M. Upham, State Highway Engr.

S. C., Bennettsville—Details under Road and Street Construction.

S. C., Manning—Clarendon County plans building bridge over Santee River, between Orangeburg and Clarendon Counties; votes May 22 on \$90,000 bonds. Address County Commrs. Noted May 1.

S. C., Orangeburg—Orangeburg County plans building bridge over Santee River, between Orangeburg and Clarendon Counties; votes May 22 on \$90,000 bonds. Address County Commrs.

S. C., Winnsboro—Details under Road and Street Construction.

Tex., Austin—Details under Road and Street Construction.

Tex., Cameron-Details under Road and Street Construction.

Tex., Clarendon—Donley County receives bids May 22 for bridge across Salt Fork; 3248.7 cu. yds. earth and borrow excavation; 20,656 lbs. reinforcing steel; 115,360 lbs. structural steel; 132.5 cu. yds. concrete; plans, etc., from C. L. Hasie, County Engr., Memphis, Tex., and State Highway Dept., Austin; Ralph Porter, County Judge.

Tex., Georgetown—Williamson County receives bids May 27 to improve South Gabriel Bridge at Georgetown, 56,000 ft. B. M. treated timbers with fastenings; 5000 ft. B. M. untreated timbers; plans, etc., from State Highway Dept., Austin, and R. A. Nichols. County Engr.

W. Va., Clarksburg—Harrison County Commrs. contemplate building concrete Oakdale bridge near Wyatt to replace bridge recently destroyed by flood.

W. Va., Williamson—Mingo County Court let contracts to Hatfield Construction Co., Huntington, at \$24,802 for 4 bridges as follows: No. 106, two 65-ft. reinforced concrete arches across Pigeon Creek, at Burch; No. 108, 40-ft. reinforced concrete deck girder on masonry abutments across Rockhouse Fork; No. 109, 50-ft. reinforced concrete through girder on masonry abutments across Rockhouse Fork, near Puritan; No. 110, 50-ft. reinforced concrete through girder on masonry abutments across Rockhouse Fork. Noted April 10.

Canning and Packing Plants

Florida—William Lee Popham of Apalachicola, Fla., has acquired Rice Bros. Packing Co.'s plant and Bay City Packing Co.'s can-

ning plant, boats and equipment; Carrabelle Fish and Oyster Co.'s boats, store and ice plant at Carrabelle, Fla.; has also acquired additional shore lands.

Fla., Punta Gorda—Punta Gorda Exchange, E. W. Roundtree, F. R. Blount and others interested in establishing packing plant.

Ky., Middlesboro — Pinnacle Packing Co., capital \$25,000, incorporated by Ewing Wilder, J. F. Crogan and others.

Mo., Republic—R. T. Bridwell Canning Co., R. T. Bridwell, Mgr., Marshfield, Mo., will erect main canning plant, 2-story, 54x100 ft., and warehouse, 50x70 ft.; fireproof; owner builds; address machinery proposals to R. Bridwell, Marshfield, Mo. Noted May 1.

S. C., Clio-J. A. Orr will establish canning plant.

Coal Mines and Coke Ovens

Ky., Blackey—John P. Gorman Coal Co., Lexington, Ky., reported to have acquired holdings of Elk Creek Coal Co. at Blackey; daily capacity 750 tons; will develop.

Ky., Happy—The Defiance Coal Co. will erect coal tipple and miners' houses at Defiance; let contract within ten days.

Kentucky—The North American Co., 60 Broadway, New York City, reported to have acquired option on all properties of the St. Bernard Mining Co., including thirteen pit and strip plants, 44,000 acres mineral rights majority of timber land, commissary, tenement houses, electric power plant at Earlington; the new company will be known as the West Kentucky Coal Co., with \$15,000,000 capital, and will operate 25 mines, with annual output of 5,000,000 tons.

W. Va., Amigo — McClanhan Pocahontas Coal Co., capital \$100,000, incorporated by K. S. McClanhan, Amigo; William McClanhan and W. K. Harrah, both Backus, W. Va.

W. Va., Buchannon—Mamon Coal Co., capital \$75,000, incorporated by A. M. Minerd, A. L. Quimet, Jr., and others.

W. Va., Sprigg—Mary Martha Coal Mining Co., 401 Ingalls Bldg., Cincinnati, O. (previously noted ineptd.) organized with H. G. Tildesley, Pres.; R. S. Sale, Sec., both Cincinnati, has 500 acres under development; daily output 3 cars; has machinery.

Concrete and Cement Plants

Ky., Louisville—Standard Cement Construction Co., J. D. Walker, Gen. Mgr., Castle Hayne Rd., Wilmington, N. C., will erect and equip modern plant, 60x150 ft., install laborsaving devices, elevated storage bins, conveyors, cars, tracks, etc.; manufacture standard system of sewage disposal and standard concrete culverts. Noted May 1.

Md., Cumberland—National Cincrete Manufacturing Co., Milleran Stock, Pres., New York, reported to erect and operate \$50,000 plant, to manufacture building blocks.

N. C., Wilmington—Standard Cement Construction Co., J. D. Walker, Gen. Mgr., Castle Hayne Rd. (lately noted, increased capital), will make plant improvements.

W. Va., Bluefield—Limestone Products Co. incorporated with C. A. Rothrock, Mgr., acquired established plant; will continue existing business; later will probably remodel, installing additional machinery, etc.

Cotton Compress and Gins

N. C., Fayetteville—Skibo Community Ginning Co., Route No. 3, capital \$50,000, incorporated by R. B. Evans, T. J. Harris and others.

Tex., Beasley—Beasley Farmers Gin Co. incorporated by T. B. Darst, L. B. H. Sterns and others.

Tex., Eagle Pass—Eagle Pass Gin Co. incorporated by J. A. Baker, W. B. Murray and others.

Tex., Floydada—T. H. Harris of Sulphur Springs, Tex., will construct cotton gin.

Tex., Hebbronville—Randado Gin Co. incorporated by Jose A. Canales, Zenon Ramirez

Tex., Plainview—Plainview Compress & Warehouse Co., capital \$50,000, incorporated by A. S. Underwood, T. F. Muchinson and others.

Drainage and Irrigation

Ark., Osceola—Commrs. of the Sub-district No. 1 of Osceola Drainage Dist. No. 1 let contract to G. A. McWilliams, Chicago, Ill., for \$100,000 drainage project, reclaiming thousands of acres of land; Willis E. Ayers, Engr. in charge, Osceola; sold \$100,000 bonds.

Fla., Fort Lauderdale—Details under Miscellaneous Construction.

Fla., Moore Haven—Trustees of the Internal Improvement Fund interested in the formation of new drainage district, to include Moorehaven and about 3000 acres north and west of the Three-Mile canal, completing the system for the entire Lake Okeechobee south shore.

Ga., Savannah—Chatham County Commrs., Oliver T. Bacon, Chrmn., will continue drainage project in the Ogeechee Dist.; plans purchasing three more dredges; entire district is being surveyed by the County Engineers.

La., Thibodaux—The Lafourche-Terrebonne Drainage Dist. organized with P. V. Morvan, Pres.; M. J. Polmer, Sec.-Treas.

Tex., El Paso—R. B. Kimbrough will construct system to irrigate about 500 acres

of land in Hudspeth County; State Board of Engineers granted permit to divert 900 acre ft. of water from the Rio Grande River.

Tex., Wharton—Wharton County voted \$600,000 reclamation bonds to dredge new channel for the Colorado river. Address The Commrs.

Electric Light and Power Plants

Ark., Mammoth Springs—Central Power & Light Co., Walnut Ridge, Ark., acquired Mammoth Springs Light and Power Co.'s plant.

Fla., Eau Gallie-Details under Land Developments.

Fla., Lakeland-Details under Land Developments.

Fla., Sarasota—City let contract to Fulton Iron Works, Birmingham, Ala., to install Diesel oil burning machine, 750 h.p. and 500 kw. generator, for new electric light plant, cost \$69,952. Noted April 10.

Fla., Tampa-Details under Land Developments.

Fla., Palatka—Details under Land Developments.

Fla., Winter Haven—Details under Land Developments.

Md., Snow Hill-City Council interested in acquiring local electric light plant.

Mo., Columbia—Details under Water Works.

N. C., Farmville—City let contract to R. L. Blalock, Kinston, N. C., to construct addition to municipal light and power plant; W. C. Olson, Conslt. Engr., 308 E. Gordon St. Noted April 3.

N. C., Rutherfordton—City let contract to Boyd, Higgins & Goforth, Charlotte, N. C., at \$20,000 for water works extension; to Michael & Bivens, Gastonia, N. C., at \$17,000 for white way system; The Carolina Engineering Co., Engrs., Wilmington, N. C. (Noted April 4.)

Mo., Springfield—Cities Service Co., through its subsidiary, Joplin District Electric Co., Joplin, Mo., will extend transmission line to Springfield and surrounding towns.

Okla., Burlington—Burlington Light & Power Co., capital \$10,000, incorporated by C. C. Watson, Theo. Kurz and others. Okla., McAlester—Southwest Power Co., G.

Okla., McAlester—Southwest Power Co., G. W. Skow, V. P., 404 N. Seventh St., formed by consolidation of Coal District Power Co. of Sebastian, Logan and Scott counties and Choctaw Power & Light Co., McAlester, Okla.; granted permission by Arkansas Railroad Commsn., Little Rock, Ark., to sell \$2,000,000 bonds for construction of 66,000 volts transmission line from Wilburton, Okla., to Hartford to connect with Oklahoma properties.

Tenn., Chattanooga—Tennessee Electric Power Co., E. D. Reed, Gen. Supt., of Chattanooga, Tenn., reported will construct a 110,000 volts high tension line connecting company's lines with Georgia Power Co.; line will extend from Ridgedale station over present steel towers to a point approximately 1700 ft. east of Missionary Ridge, distance of 3 miles; cost, together with transformers and equipment, \$140,000.

Tenn., Martin—J. H. Byrd, representing the Kentucky-Tennessee Power Co. of Hopkinsville, Ky., will probably acquire city electric light plant.

Va., Bristol—Edmondson Power & Electric Co. reported to contemplate construction of dam and power plant on Avan's Ford on Holston River; will build dam with 35 ft. head, covering approximately 300 acres of land.

Va., Bristol—Details under Land Developments.

Va., Danville—City Council's Public Works Committee having estimate prepared for installing white way system on Craighead St.

W. Va., Fairmont—Monongahela West Penn Public Service Co. let contract to I. Gillett, Fairmont, to drill well; cost about \$16,000.

W. Va., Gauley—Gauley Power Co. is planning to construct 2 power plants on Gauley River and 3 on Meadow River near Gauley and Kanawha Falls.

W. Va., Hopemont—State Board of Control, Charleston, W. Va., James S. Lakin, Pres., authorized construction of electric powerhouse for State Tuberculosis Sanitarium.

Flour, Feed and Meal Mills

Tex., Houston—Ross Grain Co., capital \$20,000, incorporated by J. E. Josey, C. C. Chinski and others.

Tex., Waxahachie—D. H. Thompson will erect feed house, iron clad, 50x100 ft.

Foundry and Machine Plants

Ala., Birmingham—Tampa Shipbuilding & Engineering Co., Ernest Kreher, Pres., Tampa, Fla., reported to erect \$32,000 branch plant at Tarrant City; manufacture tractors, etc.

Ala, Talladega—Eagle Iron Works, capital \$10,000, incorporated with J. S. Hanson, Pres.-Gen. Mgr.; J. A. Nelson, Sec.-Treas.; has acquired plant on North St. and has begun remodeling.

Ark., Helena—Reynolds Implement Co., capital \$40,000, incorporated with S. Straub, Pres.; G. L. Davidson, Sec.-Treas.

Gas and Oil Enterprises

Fla., Tampa—Details under Land Developments.

Valuable Assistance to Your Sales Organization

Every business day in the year we publish a

DAILY BULLETIN

giving dependable and prompt information of industrial undertakings, important building and construction operations and State, County and municipal improvements in the entire South and Southwest. If you sell Machinery and Supplies, Railroad or Contractors' Equpiment or are an Architect, Contractor or Builder this inexpensive daily news service would prove invaluable to you.

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MANUFACTURERS RECORD

BALTIMORE, MD.

La., Shreveport—Southwestern Gas & Electric Co. contemplates improvements, including new transmission lines, gas lines, etc.

Md., Baltimore—Standard Oil Co. of New Jersey, Canton, Md., will expend \$60,000 in improvements at 1st Ave. and 8th St.; company is owner, architect and builder.

Mo., Laclede—Peoples Gas Light & Coke Co., 123 S. Michigan Blvd., Chicago, reported to have acquired control of common stock of Laclede Gas Light Co.

Mo., Oronogo—Citizens Gas Co., incorporated by R. Stults, O. H. Miller and others.

N. C., Charlotte—Simpson Oil & Gas Co., capital \$50,000, incorporated by Charles Simpson, P. A. Bowden and others.

Okla., Duncan—Collins Oil Co., incorporated by W. R. McBride, D. C. Teter and others.

Okla., Sapulpa—Producers Oil Co. has acquired Polar Refining Plant and will operate; will improve.

Tenn., Chattanooga—Chattanooga Oil Co. incorporated by B. F. Annis, R. E. Jones and others.

Tex., Amarillo—Twin Six Oil Co., capital \$60,000, incorporated by L. B. Newby, J. N. Beasley and others.

Tex., Amarillo—Pan-Tex Pipe Line Co.; Dorset Carter, Pres., let contract to Roy Irick of Plainview, Tex., for 64n. pipe line, cost \$50.000. Noted May 1.

Tex., Aransas Pass — McCorkle Pipe Line Co., S. R. McCorkle, Chrm. of Board, 504 Burnett Bldg., Fort Worth, Tex., reported to have let contracts involving about \$1,400,000 in pumps and pumping machinery to Prescott Co., Menominee, Mich., in connection with construction of pipe line from Duncan, Okla., to Aransas Pass; will probably let contract within few days for approximately 1000 miles of pipe line and over 100 storage tanks of 55,000 bbls. capacity. Noted April 17.

Tex., Corsicana—Navarro Royalty Co., incorporated by C. B. Gaddis, J. G. Bass and others.

Tex., Corpus Christi — Oil Men of the World, capital \$15,000, incorporated by R. F. Gerrells, B. Harrell and others.

Tex., Fort Worth—Angelina Oil Co., capital \$75,000, incorporated by J. C. McFarland, M. E. Conley and others.

Tex., Kerens-Boyd Oil Co. has option on 50 acres of land for tank farm.

Tex., Laredo—Archer Drilling Co., capital \$15,000, incorporated by J. T. Archer, C. K. Alworth and others.

Tex., Moran—Meredith Oil & Gas Co., capital \$55,000, incorporated by S. C. Meredith, W. C. Merchant and others.

Tex., Orange—American National Oil Co. increased capital from \$75,000 to \$100,000.

Tex., San Antonio—Brooking Oil Co., capital \$50,000, incorporated by A. D. Inglis, R. W. Brookes and others.

Tex., San Antonio—Walhunda Petrolia Corp., capital \$50,000, chartered by W. G. Hundley; J. E. Walsh and others.

Tex., Shiner—K. B. Oil & Gas Co., capital \$20,000, incorporated by J. C. Blohm, E. F. Wolters and others.

W. Va., Charleston—Roane County Oil Co., capital \$69,000, incorporated by John J. Riordan, R. S. Startzman and others.

W. Va., Ivydale—Ivydale Oil & Gas Co., capital \$10,000, incorporated by Harley Jarvis, O. M. Somers and others.

W. Va., Wellsburg—Skyrocket Oil Co., capital \$15,000, incorporated by L. G. Roberts, Montgomery Frazier and others.

Ice and Cold-Storage Plants

Fla., Monticello—J. A. McClellan contemplates building 1-story ice and cold storage plant.

Ky., Frankfort—Frankfort Ice & Coal Co., capital \$150,000, incorporated by F. J. Sutterlin, Charles Sutterlin and others.

Tenn., McKenzie—The McKenzie Ice Co. reported to establish 12 ton ice plant.

Tex., Santa Anna—Santa Anna Cold Storage Co., incorporated by John Potter, J. D. Simpson and others.

Va., Berryville—C. L. Robinson of Winchester, Va., has under construction 50,000 bbl. capacity cold storage plant.

Iron and Steel Plants

Tex., Fort Worth—Lone Star Tank Co., W. A. Stuckey, Propr., Wichita Falls, Tex., reported to erect \$75,000 tank and steel car repair plant, has four acre site.

Land Development

Ala., Anniston—Sunset Land Co. will increase capital from \$30,000 to \$100,000.

Ala., Birmingham—Belview Land Co., capital \$200,000, incorporated with W. A. Poindexter, Pres.; N. H. Waters, Sec.; has 40 acres and will develop for subdivision.

Ala., Birmingham—City Park and Recreation Board, M. P. Phillips, V.-P., engaged Olmsted Bros., Landscape Archts., Brookline, Mass., to make surveys of city's parks.

Fla., Bradentown—Works Investment Co., S. D. Works, Pres., Minneapolis, Minn., acquired 12,696 acres of land and will develop for colonization.

Fla., Daytona—Pines Realty Co., Inc., capital \$500,000, incorporated with R. L. Smith, Pres.; J. B. Kahn, Sec.

Fla., Eau Gallie—George and W. L. Greason have acquired 45 acre site on Horse Creek and will develop for subdivision; install water, sewers, electric lights, dredge Horse Creek, etc.

Fla., Fort Lauderdale—Details under Miscellaneous Construction.

Fla., Fort Pierce—Details under Water Works.

Fla., Jacksonville—C. Roy Kindt, 10136 S. Hoyne Ave., Chicago, Ill. and associates will develop 1000 acre tract on San Jose Blvd.; will construct 6000 ft. river boulevard, yacht basin, sewerage, artesian wells, winding roads and two 18-hole golf links, hotel, etc.; Charles E. Loss of Loss & Co., Contrs., Chicago. Noted Apríl 3.

Fla. ,Key West—City voted \$60,000 bonds for completion of municipal golf course. Address The Mayor.

Fla., Lakeland—E. H. Trebes, Tampa, Fla., has contract involving about \$300,000 for improvement work at Shore Acres suburban development, including cement walks and curbs, asphalt paved streets, storm and sanitary sewers, water manis, electric lights, etc.

Fla., Miami—Warren B. Ferris of Columbus, O., acquired bay frontage on Belle Isle and will develop for Spanish settlement.

Fla., Miami—Macfadyean & Co., capital \$10,000, incorporated with James Macfadyean, Pres., James R. Hicks, Sec.-Treas.

Fla., Palatka—Coquina Gables, lately noted incorporated with \$15,000 capital, organized with Goode M. Guerry, Pres.; Clifton W. Loveland, Sec.; will develop 229 acres for resort; erect pavilion and residences; install city sewer and water and electric lights; construct roads and streets; Peter Kendrick & Co., Constr. Engr., Jacksonville.

Fla., St. Petersburg—Pinellas Land Co., lately noted incorporated with \$50,000 capi-

tal, organized with L. A. Salisburg, Pres., Crown Point, Ind.; S. H. Harris, Sec.; will develop 40 acres for subdivision.

Fla., Tampa—Jones-Blank Realty Co., capital \$25,000, incorporated with Kelly D. Jones, Pres.; Leslie H. Blank, Sec.

Fla., Tampa—Rocky Point Development Co., capital \$250,000, incorporated with H. E. Jenkins, Pres.; R. W. Shackleford, Sec.

Fla., Tampa—Parkland Estates Corp., subsidiary of A. J. Simms & Co., has acquired 160 acres and will develop for subdivision; install sewer, water, electric lights, gas, roads and streets, etc.

Fla., Winter Haven—Lake Marion Grove Corp., capital \$50,000, incorporated with H. W. Snell, Pres.; Hugh Currie, Sec.; has 2793 acres of citrus land between Lake Hamilton and Haines City and will develop Morgan City for townsite; will construct roads and streets, install water, sewer, lights, etc.

Ga., Savannah—Georgia Realty & Mortgage Co., capital \$250,000, incorporated by F. G. Langston, C. A. Murray and others.

Ga., Savannah—Dancy Co., capital \$25,000, incorporated by Dr. W. R. Dancy and others.

Ky., Ashland—Judge John F. Hager, C. E. Bruce and others have acquired 26 acres of land and will develop for subdivision.

Ky., Ashlard—Belmont Realty Co., capital \$50,000, incorporated by J. H. Kitchen, J. E. King and others.

Ky., Lexington—Suburban Land Co., incorporated by J. A. Carmichael, Eldon S. Dummitt and others.

La., Shreveport—Shreveport Co-Operative Realty Co., Inc., chartered with T. L. Sessums, Pres.; H. R. Gennrich, Sec.-Treas.

Mo., St. Louis—The Elare Co., capital \$15,000, incorporated by E. Zimmerman, R. T. Johnson and others.

Mo. ,St. Louis—Gratland Realty Co., capital \$10,000 incorporated by W. C. Loppen, 321 International Life Bldg.; R. T. Johnson and others.

N. C., Beaufort—Beaufort Development Corp., capital \$100,000, chartered by I. E. Ramsey, C. R. Wheatley and others.

N. C., Greensboro—City, P. C. Painter, Mgr. will probably develop 70 acres for playground and park.

N. C., New Bern—Griffin, Taylor, Stith & Henderson, Inc., capital \$100,000, chartered by W. W. Griffin, John R. Taylor and others.

N. C., Salisbury—Club Development Co., P. A. Wallenborn, Sec., has retained E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C. to plan development of country club, 18 hole course, 4 tennis courts, swimming pool, and development of 50 residence lots with paved streets, sidewalks, sewer and water; estimated cost \$125,000; Donald Ross, Consit. Golf Archt. Noted March 27.

N. C., Salisbury—Miss Mary Henderson has retained E. S. Draper, Landscape Archt, and Engr., Charlotte, to make surveys and plan development of subdivision.

N. C., Southern Pines—Lake View Improvement Co., capital \$150,000, incorporated by Thomas A. Kelley, Southern Pines; J. Talbot Johnson of Aberdeen, N. C., and others.

N. C., Winston-Salem — Greenleaf Cemetery Co., capital \$80,000, incorporated by W. A. Blair, J. G. Clayton and others to develop cemetery north of the city.

Okla., Tulsa—Alva J. Niles acquired 160acre tract and will develop for subdivision.

S. C., Andrews—Sanpit Land Improvement Co., capital \$20,000, incorporated by Sarah T. Harper, Pres.; M. D. Harper, Sec.

S. C., Charleston—Charleston County Tuberculosis Assn., Dr. Leon Banov, Chrmn. will develop 55 acres for camp.

- S. C., Spartanburg-C. H. Henry will develop subdivision, install streets, etc.
- S. C., Spartanburg-J. W. Alexander, A. M. Law and others will develop subdivision.
- S. C., Spartanburg—Ernest Burwell has retained E. S. Draper, Landscape Archt. and Engr. Charlotte N. C., to plan and supervise improvements to home grounds in Converse Heights.

Tenn., Nashville—C. M. Taggart has acquired and will operate Ideal Laundry; Third and Woodland Sts., will improve.

Tex., Best—Santa Rita Townsite Co. incorporated by T. L. Childress, L. B. Cox and others.

Tex., El Paso—Details under Sewer Construction.

Tex., Spring—Deering & Klein Bros., increased capital to \$12,500.

Va., Bristol—E. R. Shipley Land & Auction Co. will develop 40 acres for subdivision; install roads, water, sewer, lights, etc.

Va., Staunton—Selma Realty Corp., capital \$10,000, chartered with K. H. Knorr, Pres.; W. B. Dudley, Sec.

W. Va., Charleston—Dearien & Hardman, Inc., chartered by W. J. Dearien, E. D. Hardman and others.

W. Va., Charleston—Tourist Camp Comm., Mont J. Carmack, Chrmn., have plans by R. O. Newcomb and Clark & Krebs for tourist park.

W. Va., Huntington — Investment Realty Co. incorporated by Paul W. Scott, M. P. Wiswell and others.

W. Va., Morgantown—Mon-Valley Realty Co., 164 Chauncery Row, lately noted incorporated with 100,000 capital; D. K. Marchand, Pres.; A. L. Hartley, Sec.; will develop 25 acres for subdivision; install sewers, streets, water, sidewalks, etc.; Bartlett Bros., Constr. Engr., Morgantown.

Lumber Enterprises

Ala., Bay Minette—B. & M. Lumber Co., organized by Joseph Baldwin of Laurel, Miss.; Henry D. Moorer of Bay Minette; have acquired established plant; will remodel, install planing mill, dry kiln equipment, etc.

Alabama—The Gosa-Steele Lumber Co., of Eùtaw, Ala., reported to have acquired the timber rights of the Deal Lumber Co., also of the Pioneer Lumber Co. in Greene county; will develop.

Arkansas—Graves Lumber Co., of Camden, Ark., reported to have acquired about 6000 acres timber land in Jefferson and Grant Counties, containing approximately 15,000,000 ft. pine timber; will develop.

La., Plaquemine—The A. H. R. Lumber Co., capital \$15,000, incorporated with R. O. Allen, Pres.; Charles S. Kraft, Sec.-Treas.

Miss., Hillsdale—Batson & Hatten Co. (lately noted incptd., capital \$1,000,000) reported to have acquired approximately 51,000 acres timber land in Forrest, Lamar, Harrison and Stone Counties.

Miss., Meridian—McGinnis-Burdette Lumber Co., capital \$25,000, incorporated by J. Earl McGinnis, A. D. Burdette and others.

N. C., Asheville—Asheville Hardwood Co., capital \$60,000 incorporated by Andrew Gennett, H. P. Campbell and others.

N. C., Murphy—Savage Brothers Timber Co., capital \$25,000, incorporated by C. W. and George Savage and others.

S. C., Columbia—Citizens Lumber Co. incorporated with W. L. Marshall, Pres.; G. P. Marks. Sec.

Tenn., Memphis-J. P. Jordan Lumber Co., has acquired the south yard of the

Memphis Lumber Corp., on McLemore Ave.; continue existing business.

Tex., Hearne—Hearne Lumber Co., capital \$16,000, incorporated by T. W. Blake, S. W. Jones and others.

Tex., Kirbyville—Trout Creek Lumber Co., capital \$40,000, incorporated by F. M. Simms, P. D. Worthington and others.

Va., Farmville—Taylor Manufacturing Co., Bennett Taylor, Propr., Prospect, Va. will rebuild plant burned at loss of \$50,000.

W. Va., Williamson—Turkey Creek Lumber Co., capital \$30,000, incorporated by H. K. Hunt, K. C. Shelton and others.

Metal-Working Plants

Tex., Corpus Christi—Pressed Metal Manufacturing Co. (lately noted incptd.), organized with Wm. Shely, Pres.; Thos. B. Southgate, Sec.-Treas.; will erect brick and concrete building for the manufacture of patented milk bottle container and other pressed metal articles; equipment to be purchased.

Mining

Miss., Greenwood — Providence Sand & Gravel Co., capital \$100,000, incorporated by P. A. Malone, E. L. Mounger and others.

Mo., St. Louis—Central Missouri Mineral Co., incorporated by P. M. Ritchie, 4344 Ashland Ave.; R. F. Leinberger, 5144 Minerva St., and others.

N. C., Salisbury—American Leopard Stone Corp., capital \$500,000, chartered by M. L. Gantt, C. A. Forest and others.

Miscellaneous Construction

Ark., Fayetteville—Swimming Pool—City contemplates building concrete swimming pool. Address The Mayor.

Fla.. Fort Lauderdale—Seawall, etc.—City will vote on \$200,000 bonds for the following: \$20,000 for docks, seawall and harbor; \$25,000 for draining; \$15,000 for street improvements; \$33,000 for bridge over New River Sound; \$25,000 for bridge over North Fork; \$7000 for improvements and repairs to St. Andrews Ave. bridge; \$4500 for equipment for central fire department; \$6500 for fire department for south side; \$8500 for baseball park; \$30,000 for golf course; \$10,500 for Coolee Hammock park and \$15,000 for water extensions. Address The Mayor.

Fla., Fort Pierce—Seawall, etc.—Details under Water Works.

Fla., Jacksonville—Yacht Basin — Details under Land Developments.

Fla., Jupiter—Commrs. of the Jupiter Inlet Dist. receive bids until May 17 for 800 yds. rock to be placed north side of Jupiter River and about 500 yds. rock to be placed on east end of jetty. (See Machinery Wanted— Rock.)

Fla., Miami—Incinerator—Details under Road and Street Construction.

Fla., Miami—Fill—City Comsn. let contract to The Clark Dredging Co. for Bay Front Park fill of about 1,000,000 cu. yds. sand and mud to be pumped from the bay bottom; work to be completed by Dec. 1. Noted March 27.

Fla., Palatka—Swimming Pool—George R. Hilty and associates interested in establishing swimming pool.

Fla.. Tampa—Seawall, etc.—Hillsborough County Commrs., Chas. T. Friend, Chmn., receives bids until June 6 for 2½ mi. concrete seawall, hydraulic fill, sidewalk, curb and drainage appurtenances; wall to extend from city limits of Tampa south to Ballast Point; approximate quantities are: 11,750 cu. yds. concrete, 125,000 cu. yds. hydraulic fill, 51,000 lin. ft. timber piling, 13,000 lin. ft. concrete handrail, 13,850 sq. yds. side walk,

23,000 lin. ft. concrete curb and 65 catch basins; A. B. Pimm, County Engr. Noted April 10.

Fla., West Palm Beach—Pier—O. H. Younge has contract at \$50,000 for pier at foot of Worth Ave., 20 ft. wide, projecting 990 ft. into the Atlantic Ocean, creosoted timber construction; partially enclosed; to be operated by the Gus' Bath Beach Resort; C. H. Ruggles, Engr.

Ky., Louisville — Dams — United States Engrs. let following contracts: To Kosmos Cement Co., Louisville, Ky., at \$100,000 for 40,000 bbls. cement and to Portland Cement Co., Chicago, Ill., at \$95,000 for 35,000 bbls. cement to be used at Ohio River dams; lowest bidders for five maneuver boats, Charles Hedgewald Co., New Albany; five steel derricks, American Hoist & Derrick Co., St. Paul, Minn., and Dravo Contracting Co., Pittsburgh, Pa., for 5 maneuver boats and derricks.

Md., Cumberland—Subway—City interested in the proposed construction of the \$275,000 subway on Virginia Ave., cost to be divided between the city and the Baltimore & Ohio R. R. Co. Address The Mayor.

Miss., Natchez—Incinerator—City, Luther A. Whittington, Mayor will receive bids until May 27 to furnish, install and erect 15-ton incinerator. (See Machinery Wanted—Incinerator.)

Mo., Lexington — River Protection — State Highway Dept., Jefferson City, Mo., opens bids this week for construction of series of current retards along north bank of Missouri River, about 2400 lin. ft. Noted April 24

Mo., Springfield-Grain Elevator - Lipscomb Grain & Feed Co., C. Lipscomb, Pres., has begun construction of grain elevator adjoining company's warehouse at 512 Phelps St.; concrete and steel construction, 19 over head bins, total capacity 40,000 bu.; head house, 130x32x50-ft. with 16x20-ft. addition for drier, concrete and steel, metal doors and windows, containing two units of elevating machinery, passenger elevator, 2000 bu. hopper scale, cleaner of 1500 bu. capacity per hour, and Carter disk for separating wheat; machinery will include oats from hammer mill, feed grinding machinery, corn meal outfit, elevating machinery and other equipment, machinery to be purchased; will specialize in handling cars of grain for cleaning and conditioning; Southwestern Engineering Co., Contrs., Woodruff Bldg.

N. C., Salisbury—Swimming Pool—Details under Land Developments.

Tenn., Knoxville—Mortuary—E. B. Mann & Co. let contract to McGill & Weaver for 2-story and basement mortuary building at 414 West Church Ave. (site of present building), 70x90-ft., buff brick and terra cotta with tile roof; two porte-cochere entrances and concrete driveway all around; \$100,000; Graf & Sons, Archts.

Tex., El Paso — Retaining Wall — Details under Sewer Construction.

W. Va., Shinnston—Incinerator—City, F. F. Robey, Mayor, will build \$6000 incinerator plant; J. P. McClintock.

Miscellaneous Enterprises

Ala., Birmingham—Hercules Powder Co. of Wilmington, Del., reported to have begun construction of branch plant at McAdory, Ala., to manufacture all standard grades of explosives, including gelatin; initial capacity 750,000 lbs. per month; John J. Grimes, Mgr. Birmingham branch.

D. C., Washington—The Saygo Works, Inc., 408 Ouray Bldg. (lately noted incptd., capital \$30,000) organized with C. E. Lancaster, Pres.; M. B. Frazier, Mgr.; has installed

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

equipment for the manufacture of Saygo Timers for Ford motors.

Fla., Fort Lauderdale-Details under Miscellaneous Construction.

Fla., Hollywood—Hollywood Publishing Co., F. O. Van Deren, Sec., let contract to Hunt Bros., Miami, Fla., at \$15,000 for 40x72ft. building; install complete printing equipment, all purchased; H. G. Atherton, Archt., Hollywood. Noted May 1.

Fla., Miami—Florida Marble & Granite Co., will erect 50x90-ft, building on N. Miami St.; column and girder construction with curtain walls of hollow tile, front to be marble and plate glass.

Fla., Miami—Greenhouses—Joseph Thomas of Greensburg, Pa, has acquired 10 acre site on Everglades Ave., will erect greenhouses, install water system, etc.

Fla., Winter Haven—Laundry—C. J. Hurst of Pelham, Ga. contemplates establishing laundry.

Ga., Augusta—Augusta Amusement Co. capital \$30,000, incorporated by B. E. Lester, P. H. Haddon and others.

Ky., Louisville—A. Englehard & Sons Co., Inc., 805 W. Main St., has plans by A. G. Tafel, Archt., 306 Coleman Bldg., to erect 5 story and basement coffee roasting plant at 14th and Magazine Sts.

Ky., Louisville—Louisville Buttermilk Co., capital \$20,000, incorporated by Geo. C. Collins, Jr., S. E. Hunt and others.

La., Baton Rouge—Standard Light & Power Manufacturing Co., capital \$50,000, incorporated with J. H. McLean, Pres.-Mgr.; will manufacture farm light plants and batteries for rural homes; will probably purchase factory site.

La., Shreveport—Fire-fighting Equipment—City, S. G. Wolfe, Sec.-Treas., receives bids until May 13 to furnish fire department with one triple combination pumper, chemical and hose motor car; specifications on file at office of Fire Dept. (See Machinery Wanted—Fire-fighting Equipment.)

Md., Baltimore—Starr Products Manufacturing Co., Inc., 100 N. High St., capital \$100,000, chartered by Jos. E. Nechankin, Harry C. McCord and others; manufacture portable baby cribs.

Md., Baltimore—O'Donovan & Co., Inc., 253 Park Ave., capital \$10,000, chartered by Lily W. O'Donovan, Wilbur C. White and others.

Md., Baltimore—W. G. Schaefer Co., 251 Prospect Ave., capital \$25,000, incorporated by Walter G. Schaefer, Wm. S. Smith and others.

Md., Baltimore—Blumenthal-Kahn Electric Co., 505 N. Eutaw St., has leased building at 518 N. Charles St.; will erect 2-story brick addition for factory.

Md., Baltimore—The P. and H .Morton Advertising Co., outdoor advertising, 222 S. Howard St., will erect \$45,000 factory building on Elgin Ave. near Monroe St.

Md., Baltimore—Steamship Lines—Consolidation Navigation Co., Merchants & Manufacturers Bldg., 22 Light St., capital \$300,000; formed by the amalgamation of the Export Transportation Co., W. A. Blake & Co., and the Baltimore Steamship Co., Inc.

Md., Salisbury — Beverage — The Mate Corp., of York, Pa. reported to establish branch plant; manufacture soft drink known as Mah-Tay.

Miss., Biloxi—Biloxi Hardware Co., capital \$20,000, incorporated by T. N. Lightsey, J. A. Dacey and others.

Miss., New Albany—New Albany Creamery Co. incorporated by T. W. Tate, B. H. Caldwell and others. Miss., Tupelo—Journal-Review Publishing Co., capital \$20,000, incorporated by F. L. Cannon, J. W. Anglin and others.

Mo., Kansas City-F. A. Durant Advertising Co. incorporated by F. A. Durant, W. E. Tyler and R. W. Moore.

Mo., Springfield — Springfield Coca Cola Bottling Co., 308 N. Commercial St., Edwin C. R.ce, Pres., has plant with daily output 150 cases of carbonated beverages; contract for equipment let to Crown Cork & Seal Co., 1511 Guilford Ave., Baltimore, Md., and Twentieth Century Co., Milwaukee, Wis. Noted April 10.

Mo., St. Joseph—Butter Krist Pie & Cake Baking Co., incorporated by A. A. Vogelman, A. M. Hempy and others.

Mo., St. Louis—Northern Paper Co., 8 S. Second St., capital \$15,000, incorporated by Russell W. Meredith, Wm. E. Ruler and others.

Mo., St. Louis—Specialty Garment Manufacturing Co., capital \$30,000, incorporated by F. J. Quinn, Times Bldg., W. A. Spears, 5208 Cabarre St. and others.

N. C., Hickory—Catawba Creamery Co. will erect creamery and poultry plant.

N. C., Wilmington—Shirts—Southland Manufacturing Co., Hanover St. will establish branch plant at 901 Castle St.

Okla., Bartlesville—Ridge Manufacturing Co., capital \$50,000, incorporated by Charles A. Rogers, I. L. Ridge and others.

Okla., El Reno—El Reno Bottling Co., incorporated by W. L. Bruce, El Reno; H. R. Whiting, Oklahoma City.

Okla., Enid—L. A. Galleciez Construction Co., capital \$10,000, incorporated by L. A. Galleciez, Sam W. Buresh and others.

N. C., Asheville—Tri-State Transportation Co., capital \$50,000, incorporated by Frank E. Haines, R. Lee and others.

N. C., Asheville—Powers Engineering & Construction Co., capital \$100,000, incorporated by Hayward W. Powers, Asheville; W. H. Powers, White Pine, Tenn., and others.

N. C., Canton—Champion Coated Paper Co., Hamilton, O., noted May 1 having acquired mills of Champion Fibre Co., advises the MANUFACTURERS RECORD that they have completed purchase of additional paper machine, beaters and stuff pumps, leaving only few minor items to be purchased; will probably spend a total of approximately \$600,000 within next 6 or 8 months carrying out plans.

N. C., Charlotte—Standard Printing House, Inc., 205 East 4th. St., capital \$25,000, incorporated by Carl O. Keels, J. G. Todd and others.

N. C., Clinton — Independent Publishing Co., capital \$50,000, incorporated by W. W. Castell, W. W. Barrow and others.

N. C., Gastonia—New Hope Road Water Co., capital \$24,000, incorporated by C. C. Armstrong, A. J. Kirby and others.

N. C., Greensboro—Health-Tone Laborotories, Inc., capital \$25,000, incorporated by Thomas H. Ennis, E. L. Palmer and others.

N. C., New Bern—New Bern Resort, Inc., incorporated by W. W. Griffin, T. G. Hyman and others.

N. C., New Bern—Quality Printing House, capital \$25,000, incorporated by Geo. D. Dail, J. S. Miller and others.

N. C., North Wilkesboro-Wilkes Chera Cola Bottling Co., capital \$25,000, incorporated by Henry Reynolds, S. V. Tomiinson and others.

N. C., Reidsville—Belvedere Hotel Co., capital \$125,000, incorporated by T. L. Gardner, R. T. Burton and others.

N. C., Thomasville-Crutchfield Hardware

Corp., capital \$100,000, incorporated by J. H. Grier, P. M. Barnhardt and others.

Okla., El Reno-V. R. Mordy will erect cleaning plant and remodel laundry.

S. C., Columbia—Rhodes Master Metallic Packing Co., of Houston, Tex., C. F. Knaggs, 2811 Wilson St., will establish distributing plant.

S. C., Spartanburg—Manufacturers Equipment Corp., organized with Jesse W. Boyd, Sec-Treas.; R. W. Gossett, V. P. and Mgr; will manufacture patented device for looms. Noted May 1.

Tenn., Knoxville—J. P. Jones Electric Co., incorporated by Jean Paul Jones, E. M. Jones and others.

Tenn., Chattanooga—O. B. Andrews Co. increased capital from \$1,150,000 to \$1,300,-000.

Tenn., Chattanooga—Chattanooga Transfer & Storage Co. increased capital from \$100,000 to \$150,000.

Tenn., Knoxville—Easy-Go-Lax Relief Co., 101 S. Gay St., lately noted incorporated with \$25,000 capital, B. E. Webb, Pres.; H. L. Thompson, Sec.-Treas.; will manufacture medicine. See Machinery Wanted — Boxes (Wooden); Cardboard Easels.

Tenn., Memphis—Barrow-Aree Laboratories, Inc., has leased building at 56 N. Third St. for laboratory; have plans for improvement by company's engineering forces. Noted April 24.

Tenn., Memphis — Undertaking — Spencer-Sturia Co., capital \$50,000, incorporated by Frank J. Sturia, E. W. Spencer and others.

Tenn., Memphis—Super-Heat Sales Co. incorporated by C. W. Miller, W. L. Russell and others.

Tenn., Memphis—Rosenbaum Brothers, Inc., capital \$10,000, incorporated by W. D. Kyser, J. S. Allen an dothers.

Tenn., Memphis—Robert G. Bruce & Co., capital \$500,000, incorporated by Robt. G. and Frank E. Bruce and others.

Tenn., Memphis—Empire Publishing Co., 503 Lyceum Bldg., capital \$25,000, incorporated by M. D. Vanover, James O. Padgett and others.

Tex., Brenham—Brenham Banner Publishing Co. increased capital from \$30,000 to \$60,000.

Tex., Dallas — North Dallas Sewer and Water Corp., capital \$10,000, chartered by J. P. Stevens, Porter Lindsley and others.

Tex., Denton—Harris-Koenig Hardware Co., capital \$25,000 incorporated by R. E. Harris, A. G. Koenig and others.

Tex., El Paso—Texas Electrical Supply Co. incorporated by C. R. Lawrence, Wilma Atkinson and others.

Tex:, El Paso—W. G. Roe increased capital from \$40,000 to \$50,000, changed name from Roe-Beers Co.

Tex., Galveston—Oleander Cleaners, incorporated by T. H. Allen, T. H. Green and others.

Tex., Houston—Houston Dispatch has site at Polk and Dowling Sts. and will erect printing plant.

Tex., Houston—Texas Paint Manufacturing Co., 533 W. 23rd St., organized with Henry Rutz, Pres.; Kenneth Krahl, Sec., has leased building for manufacture of cold water paints, etc.

Tex., Houston—Lightfoot-Bolton Co., capital \$12,000, incorporated by E. H. Lightfoot, N. R. Bolton and others.

Tex., Houston-Fire Fighting Equipment -Details under Road and Street Construction.

Tex., Jasper-Jasper County Fair Assn.,

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capital \$10,000, incorporated with Geo. G. Markley, Pres.; W. P. Smith, Sec.

Tex., Laredo—Transportation—Brennan & Corrigan, Inc., capital \$30,000, chartered by H. L. Brennan, E. H. Corrigan and others.

Tex., Lubbock—Pan Handle Construction Co., capital \$100,000, incorporated by John Dalrymple, H. O. Grant and others.

Tex., Lufkin-Lufkin Home Building Co., increased capital from \$40,000 to \$80,000.

Tex., San Augustine-A. J. Wood & Bros. increased capital from \$20,000 to \$30,000.

Tex., Sheffield—Sheffield Livestock Co., capital \$35,000, incorporated by M. B. Terrell, G. T. Jessup and others.

Tex., Texarkana—American Cross Arm & Conduit Co., capital \$25,000, incorporated by R. J. Calder, J. D. Latimer and others; manufacture telegraph and telephone line material.

Va., Appalachia—Star Taxi Co., capital \$10,000, incorporated with E. M. Miller, Pres.; Charlie Cornett, Sec.

Va., Bristol-J. J. Little & Co. increased capital from \$1,750,000 to \$2,750,000.

Va., Charlottesville—Maryland-Virginia Milk Products Co., capital \$10,000, incorporated with J. M. Rothwell, Pres.; H. D. Carpenter, Sec.

Va., Harrisonburg—The Whistle Corp., capital \$20,000, chartered with W. L. Mausly, Pres., McGaheysville; F. W. Yancey, Sec., Harrisonburg.

Va., Norfolk—Contracting—Seamore Corp. chartered with W. P. Tunstall, Pres.; G. O'Neill, Sec.

Va., Norfolk—Perfection Cleaning Corp., capital \$25,000, chartered with Herbert P. Randolph, Jr., Pres.; H. F. Reese, Sec.

Va., Norfolk—Willoughby Bay Oyster Corp., capital \$25,000, incorporated with Clifton Hogshead, Pres., Norfolk; G. H. Baker, Sec., Portsmouth.

Va., Petersburg—E. P. Garrity, Dr. Joseph Smith and others interested in organizing \$105,000 company to establish packing plant.

Va., Richmond—Electrical Supplies—Chewing & Wilmer, Inc., capital \$25,000, chartered with G. C. Chewing, Pres., Bon Air, Va.; T. W. Wilmer, Sec., Richmond.

Va., Richmond—Fibre Board Container Co., D. J. Donati, Jr., Pres. contemplates enlarging plant at 3200 Williamsburg Ave., install new machinery. etc.

W. Va., Beckley—Huddlestone, Inc., capital \$10,000, chartered by E. E. Huddlestone, G. M. Hanson and others.

W. Va., Clay—W. C. Markle Construction Co., capital \$100,000, incorporated by W. C. Markle, W. S. Pierson and others.

W. Va., Grafton-Dr. O. S. Campbell, has acquired plant of Royal Window Glass Co.

W. Va., Huntington—Huntington Magneto & Electric Co., capital \$50,000, incorporated by George Napier, William H. Hanner and others

W. Va., Elkins—Dwight H. Teter, of Philfipi, W. Va., acquired plant of Inter Mountain.

W. Va., Piedmont—Berkeley Theatre Co., capital \$25,000, incorporated by Floyd Lininger, Harry K. Drane and others.

W. Va., Shinnston—Shinnston Bus Line Co., capital \$10,000, incorporated by Philip Seckman, Roy Province and others.

W. Va., Wheeling—Radio & Battery Co., capital \$10,000, incorporated by Charles L. Hills, W. H. Truschell and others.

Motor Cars, Garages, Tires, Etc.

Ala., Union Springs—Filling Station—Union Oil Co. incorporated with W. T. Edwards, Pres. Mgr.: W. J. Hunter, Sec. Treas.

Fla., Miami, Garage—I. E. Shilling Co. will build \$9000 garage on S. Miami Ave.

Fla., St. Petersburg—Albright Motor Co., O. R. Albright, Pres., corner 3rd St. and 3rd Avé., let contract to Victor A. Boeke of St. Petersburg at \$35,000 for 3-story, 100x120-ft. garage, hollow tile and steel construction; install garage equipment. Noted May 1. (See Machinery Wanted—Garage Equipment.)

Fla., St. Petersburg—Filling Station— Tropical Oil Co., capital \$100,000 incorporated with Roy L. Dew, Pres.; will establish filling station at 25th. and Fifth Ave., will install storage tanks.

Fla., Tampa—The Whiting Railway Motor Co., Inc., capital \$200,000, incorporated by J. A. Whiting and others; have leased site on Fifth Ave. and 13th St.; will erect shops to manufacture Whiting railway motor cars.

Ga., Savannah—Savannah Vulcanizing Co., capital \$20,000, incorporated by C. J. De-Loach, W. W. Morrison and others.

Ky., Louisville—Garage—Reo-Spalding Kelley Co., W. Spalding, Pres.-Treas., 206 E. Broadway, will erect 2 story, 50x170-ft., brick garage building; \$50,000; Arthur G. Tafel, Archt., 306 Coleman Bldg.

Ky., Louisville—Don Prentiss Motor Co. increased capital from \$75,000 to \$100,000; changed name from Jenner Woody Motor Co.

Ky., Louisville—Bartling Tire & Rubber Co., capital \$300,000, incorporated by Edward F. Bartling, Chas. V. Williams and others.

Ky., Middletown—Middletown Auto Repair Co. incorporated by E. T. Grunwald, J. Hilpp and others.

Ky., Owenboro—Storage Service Garage, organized with William Bartlett, Pres.-Mgr. T. J. Bartlett, Jr., Sec-Treas., has leased building, 3rd. and Daviess Sts.

La., Marksville—Marksville Moto Co., Inc., let contract for 2-story, 74x110-ft. garage and salesroom, brick construction.

Md., Baltimore — Curry-Stout Motor Co., 612 Equitable Bldg., capital \$75,000, incorporated by Charles W. Curry, Geo. H. Stout and others.

Md., Baltimore—Leach & Damesyn, Inc., 3 W. Read St., capital \$50,000, chartered by Joseph Leach, Wm. F. Damesyn and others.

Md., Frederick—Filling Station—Standard Oil Co., J. A. Fricker, Mgr. Baltimore Division, Canton, Md. will erect filling station; acquired 50x62-ft. site corner Market and 4th St.; construction by company's forces.

Miss., Canton—C. P. Cook Auto Co., C. P. Cook, Mgr., let contract to Lundberg & Hayes, Canton, to remodel 2-story, 51x190 ft. brick building.

Miss., Yazoo City—Filling Station—Auto Supply Co. will erect filling station corner Main and Madison Sts.

Mo., St. Louis—Tevis Motor Co., Clarence H. Tevis, Pres., has leased 2-story, 60x135-ft. building at 3005 Locust Blvd.; has begun remodeling.

N. C., High Point—Piedmont Rubber Co., Washington and Green St., incorporated by D. L. Butler, Pres.; manufacture tire patches and accessories.

N. C., Winston-Salem—Filling Station— Ogburn & Hill let contract to Frank L. Blum for 2 story, 75x100-ft. filling station corner Cherry and Sixth St.; Northup & O'Brien, Archts.

Okla., Oklahoma City—Edgar Johnson Motor Co., capital \$10,000, incorporated by Edgar C. Johnson, Sam Johnson and others.

S. C., Spartanburg—Automobile Accessories—J. S. Wingo & Co., Commerce St., formed by the merging of J. S. Wingo Co. and East Main Street Auto Supply Co.; will conitnue existing business.

Tenn., Martin—Teapot Filling Station, incorporated by G. R. Moss, W. T. Murphy and others.

Tenn., Memphis—Garage—William Randolph will erect \$60,000 garage building on 69 Beall Ave., 2 story, 100x140-ft., reinforced concrete and brick construction, concrete floors; build ramps connecting two floors, using roof for storage space; total floor space 40,000 sq. ft.

Tenn., Memphis—John T. Fisher Motor Co. increased capital from \$100,000 to \$150,000.

Tenn., Memphis—Garage—Spencer & Phillips, Archts., has made plans for 2-story, brick, garage building on South Main St.; O. E. Bass interested.

Tenn., Watertown—Watertown Motor Co., organized by C. D. Hicks, Henry Dies and others.

Tex., Denton—Denton Auto Sales Co., capital \$20,000, incorporated by Dan Brown, J. M. Lankford and others.

Tex., McKinney—Garage—S. P. Coffey has begun construction of \$200,000 garage building on E. Virginia St., 100x200-ft.

Tex., Stamford—Filling Station—J. D. Shackelford has acquired site on S. Ferguson St., will erect \$10,000 filling station.

Tex., Teague—Reilly-Boyd Motor Co., will erect 1-story, concrete garage building, fire-proof construction; F. G. Silber & Co., Architects, San Antonio.

Tex., Waco-Allen-Porter Co., capital \$35,000, incorporated by T. C. Allen, H. W. Porter and others.

Va., Gloucester—Gloucester Auto Sales Co., Inc., capital \$20,000, chartered with H. M. Clements, Pres., Lee Hall, Va.; P. J. Bray, Sec., Gloucester.

Va., Martinsville—Gregory Motor Co., Inc., capital \$15,000, chartered with J. R. Gregory, Jr., Pres.; A. B. Martin, Sec.

W. Va., Charleston — Lewis Auto Sales, Capt. C. C. Lewis, III, 1558 Washington St. (temporary address), will erect \$25,000 garage building, 187x50-ft., steel, concrete and tile; install gasoline tanks, oil tanks, etc.; Knapp & Havaland, Archts., Charleston. Noted May 1. (See Garage Equipment, Tanks, etc.)

W. Va., Huntington-Huntington-Charles Motor Bus Co., capital \$50,000, incorporated by D. R. Durham, E. J. Covington and others.

W. Va., Huntington—Garage—Williams Brothers, 602 Eighth St., will erect \$25,000 addition to garage.

Railway Shops, Terminals, Roundhouses, Etc.

Mo., Joplin—W. R. McCormick Construction Co. of Joplin has contract at \$11,372 for roundhouse for the Joplin Union Depot Co. to replace burned structure; concrete foundation, walls of steel and frame construction, roof of built-up asphalt.

Road and Street Construction

Ala., Anniston—City plans 23 blocks of street paving, including Gurnee and Moore Aves., from 10th to 15th Sts., and 15th St. from Noble to furnace; also sidewalk paving on larger number of blocks; will sell bonds. Address The Mayor.

Ala., Birmingham—W. E. Dickson, Commr. of Public Improvements, plans \$1,000,000 paving program; 30 blocks paving in Ensley, \$200,000; 7th Ave., from 14th St. to 10th Ave.,

from 28th to 49th St., approximately \$300,000; complete Pratt City-Birmingham road, \$70.000, county to pay 65 per cent; pave Spring St., from 1st Ave. to Avondale Park, and install storm sewers, approximate cost \$250.000; pave Ave. B, from 14th to 18th St., cost \$45,000.

Ala., Clanton—State Highway Comn. let contract to Lehigh Portland Cement Co., Birmingham, Ala., at approximately \$123,000 for about 66,000 barrels of cement for use in 17½ mi. concrete road in Chilton County, on Montgomery-Birmingham Highway.

Ala., Hartselle—City plans expending \$100,-000 to improve Main, Barclay ,Ivey, Hickory and Railroad Sts. Address The Mayor.

Ala., Huntsville—Madison County Commrs. receive bids June 2 for 2½ mi. paved road, reinforced concrete culverts and bridges on West Clinton St. and Triana Pike, from Huntsville to south side of Merrimack village; 2900 cu. yds. common excavation, 23,-480 sq. yds. cement concrete for combination base course and header curbing, 22,145 sq. yds. sheet asphalt. Warrenite bitulithic, Tarvia double seal or bituminous concrete or 23,408 sq. yds. Portland cement concrete for one course concrete pavement; 456 cu. yds. wet and dry excavation for bridges and culverts, 20,940 lbs. reinforcing steel; plans, etc., on file; S. W. Fleming, Chmn.

Ala., Mobile—Mobile County Board of Revenue and Road Commrs. receives bids June 2 to improve Clark-Coden Belt road from Hemley-Rolston road to Coden, 3000 cu. yd. roadbed and common earth excavation; plans, etc., from Thomas B. Allman, Clk. of Board, and County Highway Engr.

Ala., Montgomery—City plans widening and surfacing Montgomery St. from Moulton to Catoma; will receive bids May 13 to pave Mobile, Grady, Clayton, S. Court and Holt Sts.; W. A. Cone, City Engr.

Ala., Tuscaloosa—City Comn. will let contract May 20 for paving about 13 streets, including 6th from 25th to 29th Aves., and from 32d to 36th Ave.; approximate cost \$112.000; contemplates additional \$40,000 in street paving.

Ark., Little Rock—Commrs. of Street Improvement Dist. No. 357 receives bids May 14 for curbs, gutters and storm sewers on 23 blocks of streets: 15,087 ft. 24 and 36-in. combined curb and gutter; 600 cu. yd. excavation; 4121 ft. 12, 15, 18 and 30-in. storm sewers; 13 manholes; 25 catch basins; rebuild sanitary sewers and manholes; plans. etc., from Alfred M. Lund, Engr., 527 Southern Trust Bidz.

Ark., Russellville—Pope County, and State Highway Dept., Little Rock, plan building Russellville-Jasper Highway; Forest Supvr. H. R. Koen, in charge of Ozark National forest, plans extensive road building in reserve. Address County Commrs.

Fla., Eau Gallie—Details under Land Developments.

Fla., Bradentown—Wyman & Green, Bradentown, plan building shell-paved road along waterfront at Cortez Beach, and connect all cross streets with shell paving.

Fla., Fort Pierce—Details under Water Works,

Fla., Gulfport—Town receives bids May 20 for approximately 115,000 sq. yd. brick paving and 93,000 lin. ft. granite curb; plans, etc., from W. W. Swift, Clk., and R. D. Brodie, Engr.

Fla., Inverness—Citrus County Commrs. receive bids this week for 2 road projects as follows: Clean, excavate, construct drainage structures and lay rock base on 10.86 ml. Road No. 5, Project 625, and 6.61 ml. Road No. 5, Project 626; alternate bids on

drainage structures, concrete culverts, etc.; plans, etc., from C. D. Schultz, County Clk., E. V. Camp and Associates, Moreland & DeKalb Aves., Atlanta, Ga., and 329 Peninsular Casualty Bldg., Jacksonville, Fla., and State Road Dept., Tallahassee.

Fla., Jacksonville—Details under Land Developments.

Fla., Miami—City votes May 21 on \$950,000 bonds for public improvements as follows. Widening and extending streets, \$225,000; proposed bridge, \$300,000; addition to hospital, \$100,000; street railway, \$100,000; city's share of sewers, \$150,000; incinerators, \$75,000; F. H. Wharton, City Mgr.

Fla., Ocala—Marion County Board of Commrs. plan paving, macadamizing or other hard surfacing 9 roads; voted \$1,500,000 bonds; T. D. Lancaster, Jr., Clk. Noted March 27.

Fla., Stuart—City Planning Board plans widening Flagler Ave. from St. Lucie Ave. to end; W. H. Roat, City Engr.

Fla., Tampa—Details under Land Developments.

Fla., Tampa—Hillsborough County let contracts to Cone Brothers, Tampa, at \$375,000 for following paving: 24-ft. block paving on rock base on Covodonga St. from Bayshore Blvd. to Cardenas Ave.; Morrison Ave. from Howard Ave. to Menderson Blvd.; both 2 mi. long, and Azeele St. from Howard Ave. to Old Tampa Bay; all in Palma Ceia Park section; also to pave several blocks on Elm St. and Green St. ½ mi. from Lutz road, in Sulphur Springs section.

Fla., Tampa—Details under Miscellaneous Construction.

Fla., Tavares—Lake County Commrs. let contract to Cecil R. Scott Co., at \$58,047, for 2.88 mi. asphaltic concrete, Florida rock base, concrete curb on Road G, from Tavares to Eustis. Noted April 17.

Fla., Winter Haven—Details under Land Development.

Ga., Atlanta—City plans paving Ponce de Leon Ave. from Argonne Ave. to Southern R. R., new hard surface, probably Willite, on present foundation; approximate cost \$100,000; also plans paving Randolph St. from Highland Ave. to Edgewood and Highland Ave. from North Boulevard to Bedford Place. Address The Mayor.

Ga., Decatur—State Highway Dept., Atlanta, Ga., plans widening to 36-ft. blvd. road from outskirts of Stone Mountain to Stone Mountain Confederate memorial.

Ga., Stone Mountain — Stone Mountain Route Highway Assn. organized with E. M. Williams, Pres.; H. D. Spivey, Sec.-Treas.; both Monroe; plans building highway from Atlanta to Washington, via Stone Mountain, Monroe, Athens, Washington and Augusta.

Kentucky-State Highway Comn., Frankfort, Ky., receives bids May 20 for cleaning surface, placing medium tar or heavy oil and sand, pea gravel or stone chips on 46 road projects as follows: Bourbon County, Proj. 20, 7.8 mi. 18-ft. wide Paris-Maysville road, from Paris to Nicholas County line, not including Millersburg; No. 32, Sec. A, 4 mi. Paris Winchetser, from Paris south; No. 21-G, 3 mi. Paris-Cynthiana, from Paris north; No. 20-H, .5 mi. Paris Lexington road; Bracken County, No. 57. Secs. E and F. 16.6 mi. Lenoxburg-Maysville, from Lenoxburg to Germantown, not including city of Brooksville; No. 50, Sec. B, Clark County, 7.7 mi. 16-ft. Winchester-Richmond, from corporate limits of Winchester to Madison County line; Nos. 23 and 25, Secs. E and E-1, Garrard County, 9.6 ns. 16ft. Lancaster-Stanford, from Lincoln County line to Kentucky River; Anderson County, 2 sections; No. 20, Sec. C, 3.9 mi. 14-ft. Lawrenceburg-Tyrone, from east corporate limits of Lawrenceburg to Kentucky River; No. 44, Sec. A, 4.07 mi. 14-ft. Lawrenceburg-Bloom field, from west corporate limits of Lawrenceburg to junction with McBrayer road; Boyle County, 4 sections; No. 25, Sec. C, 4.5 mi. 14-ft. Perryville-Danville, from 1 mi. west of Danville to Perryville; Sec. D, 3.8 mi. 16-ft. from Danville to Dix River; No. 22, Sec. E, 4.2 mi. 16-ft. Danville-Lincoln road, and 4.32 mi. 16-ft. Danville-Lexington road; No. 37, Sec. A. Warren County, 2.8 mi. 18-ft. Bowling Green-Scottsville, from corporate limits of Bowling Green to Greenwood.

No. 29, Secs. A and B, Madison-Estill Counties, 11.41 mi. 14-ft. Irvin-Richmond from 3 east of Richmond to west of Irvine; No. 18, Sec. A, Jefferson County, 17.4 mi. Louisville-Taylorville, from junction of Project 18 and 3 to Spencer County, including city of Jeffersontown; No. 20, Sec. J, Nicholas County, 4 mi. Paris-Maysville, from Bourbon County line to junction Project 61; No. 61-B 4.3 mi. 14-ft. Carlisle-Sharpesburg, from Carlisle; No. 47, Sec. B, Washington County, 2.3 mi. 16-ft. Springfield-Bardstown, from corporate limits of Springfield west; Nelson County, 2 sections; No. 18, Sec. D, 4.5 mi. Bardstown-Taylorsville, from corporate limits of Bardstown north; No. 44, Sec. A, 10.05 mi. from Bloomfield to Anderson County line; No. 47, Sec. S-L. Boyd County, 5.12 mi, 16-ft. Grayson-Ashland, from Carter County line east; No. 20, Sec. R, 6.12 mi. 16-ft. Greenup-Ashland, from Greenup to Chinnville, not including 1.3 mi.

No. 25, Secs. B and B-1, Marion County, 4.5 mi. 14-ft. Lebanon-Danville, from corporate limits of Lebanon east ; No. 2, Sec. G, Christian County, 10 mi. 12-ft. Hopkinsville-Pembroke, from corporate limits of Hopkinsville to Pembroke; No. 21, Secs. E and F, Harrison County, 5 mi. Falmouth-Cynthiana, and 5 mi. Cynthiana-Paris, from Cynthiana north and south; No. 11, Sec. H, Edmondson County, 8.091 mi. 18-ft. Cave City-Bowling Green from Barren County line to Warren County line; No. 9, Sec. S, McCracken County, 3.85 . mi. Paducah-Mayfield, from corporate limits of Paducah and ending at junction Project $9\, \frac{1}{2}$; No. 35, Sec. A, Whitley County, 7.3 mi. 15-ft. Corbin-Williamsburg, from Corbin to Williamsburg, excluding 9.3 mi. gap; No. 62, Sec. C, Pendleton County, 4.8 mi. 12-ft. Falmouth-Covington, from Grassy Creek toward Greenwood; No. 5, Sec. S, Bell County, 4.15 mi, 16-ft. Pineville-Magnet, from Pineville to Magnet; Scott County, 2 sections.

No. 5, Sec. G, 3.2 mi. Georgetown-Lexington, from corporate limits of Georgetown to Fayette County line; No. 17, Sec. F, 2 mi. 16ft. Georgetown-Frankfort, from 31/2 mi. east of Franklin County line to 51/2 mi. east of Franklin County line; No. 1, Sec. L, Todd County, 4.34 mi. Hopkinsville-Elkton, from Fairview to 4 mi. west of Elkton; No. 11, Sec. J. Hart County, 11.15 mi. 12 and 9-ft. Munfordville-Bearwallow, from Munfordville to Bearwallow; Franklin County, 4 sections; No. 17, Sec. E, 5 mi. 16-ft. Frankfort-Georgetown, from 1/2 mi. west of Forks of Elkton to Scott County line; No. 17, Secs. D and E, and 26-A, 8.5 mi. 17-ft. Louisville-Lexington, from Shelby County line to Woodford County line, excluding city limits of Frankfort; 1/2 mi. 20ft., 3.4 mi. 18-ft.; No. 5, Sec. K, Madison County, 6.84 mi. 14-ft. Richmond-Kingston, from corporate limits of Richmond to Kingston; No. 21, Secs. A and B, Campbell County, 16.5 mi. Newport-Falmouth, from corporate limits of Newport to Grants Lick, excluding Alexandria-Claryville road; Woodford County, 3 sections; No. 20, Sec. E, 4 ml. 18-ft. Lexington-Versailles, from corporate limits of Versailles to Fayette County line.

No. 26, Sec. C, 14.50 mi. 14 and 16-ft. Versailles-Brooklyn Bridge, from corporate limits of Versailles to junction Projects 47 and 26;

No. 26, Sec. B, 8.8 mi. 16-ft. Versailles-Frankfort, from corporate limits of Versailles to Franklin County line; Montgomery County, 2 sections; No. 32, Sec. B, 9.14 mi. 14 and 18ft. Mt. Sterling-Paris, from corporate limits of Mt. Sterling to Bourbon County line; No. 32, Sec. C, 3.14 mi. 14-ft. Mt. Sterling-Stanton, from corporate limits of Mt. Sterling east; No. 5, Sec. H, Fayette County, 2.9 mi. 10-ft. Lexington-Georgetown, from point north of Lexington to Scott County line; No. 22, Sec. B, Mercer County, 5.5 mi. Harrodsburg-Lawrenceburg, from corporate limits of Harrodsburg, north; No. 47-E, 5 mi. 16-ft. Shakertown-Brooklyn Bridge road; No. 5, Sec. M, Rockcastle County, 8.3 ml. 9 and 16-ft Mt. Vernon-London, from Mt. Vernon southeast; Joe S. Boggs, State Highway Engr.

Ky., Hickman—State Highway Comn., Frankfort, Ky. plans 34 mi. hard surfaced roads through Fulton County; estimated cost \$450,000.

Louisiana — Louisiana Highway Reymond Bldg., Baton Rouge, receives bids May 27 for 5 road projects as follows: State Project 71, Concordia Parish, 1.93 mi. gravel on Lucerna-Kenmora Levee Highway; Federal Aid Project 147, Union Parish, 5.23 mi. gravel Ruston-Arkansas Highway, from Bernice south to Lincoln Parish line; No. 146-B, Lincoln Parish, 4.29 mi. Ruston-Arkansas Highway, from Dubach north to Union County line; State Project No. 89, Sec. B, Pointe Coupee Parish, 7.93 mi. gravel New Roads-Simmsport Highway from Barre, 6th Road Dist. line through 4th Road Dist. to 5th Road Dist. line, Project No. 89, Sec. D-1, 1.44 mi. gravel Morganza-Ravenwood Highway from Morganza west toward Ravenwood; plans, etc., on file; J. M. Fourmy, State Highway Engr. (See Machinery Wanted-Gravel.)

La., Abbeville—Vermilion Parish Police Jury receives bids June 4 for 3½ mi. gravelroad in Road Dist. No. 2; plans, etc., from Rom P. LeBlanc, Sec. Noted March 27.

La., Bastrop—Morehouse Parish Police Jury receives bids May 27 for 2 sections of roads as follows: Route 15, 7.7 mi. from Mer Rouge to Collinston: Route No. 16, 7.7 mi. from Collinston to Wham; plans, etc., from J. L. White, Parish Engr.

La., Houma—City receives bids May 14 to curb and pave sidewalks on about 33 streets; cement sidewalks on concrete base; brick or cement curb; plans, etc., from T. Baker Smith. Engr.; Ernest D. Dupont, Mayor.

La., Leesville—Louisiana Highway Comn., Reymond Bldg., Baton Rouge, received low bid from Banta & Mutarsbough, Lake Charles, at \$110,000 for 8 mi. gravel surface Leesville-Alexandria Highway from Slagle east, Vernon Parish State Project 337-C. Noted April 17.

La., Mansfield—De Soto Parish Police Jury plans graveling roads in entire parish; voted \$1,000,000 bonds. Noted April 17.

La., Shreveport—City receives bids May 13 to pave and curb 1½ mi. on Fetzer Ave. with Warrenite bitulithic; approximate cost \$130,000 to \$140,000; S. G. Wolfe, Sec.-Treas.; H. E. Barnes, City Engr. Noted May 1.

La., South Highlands—Town receives bids this week to pave with gravel Albany Ave., Yource Drive, Archer Ave., Akard and Anniston Sts.; plans, etc., from H. C. Daigre, Town Engr.

Maryland—State Roads Comn., 601 Garrett Bldg., Baltimore, let contracts for 2 sections roads as follows: Frederick County, 1.48 mi. Urbana Pike to Montgomery-Frederick County line, M. J. Grove Lime Co., Lime Kiln, Md., \$49,791; Washington County, 6½ mi. between Sharpsburg and Hagerstown,

All Previous Construction Records in South Surpassed

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\$155,000,000

16,043

\$139,000,000 14,462 in contracts awarded first quarter — 1924.

construction items published in first three months—1924.

in contracts awarded first quarter — 1923.

construction items published in first three months — 1923.

Bester-Long Co., Hagerstown. Noted April 24.

Maryland-State Roads Comn., 601 Garrett Bldg., Baltimore, receives bids May 20 for 6 roads as follows: Garrett County, 1 mi. concrete from Kitzmiller toward Oakland, Cont. G-28; Baltimore County, 4.6 mi. sheet asphalt or penetration macadam resurfacing, along Eastern Ave. from City Line to Middle River Bridge, Cont. B-63; Anne Arundel County, 4.43 mi. concrete along Defense Highway from Parole toward Priest Bridge, Cont. AA-39; St. Mary's County, 3 mi. gravel from end of Cont. SM-25 to Budd Creek, Cont. SM-27; Worcester County, 2 mi. concrete from end of Cont. Wo-30 toward Salisbury. Cont. Wo-32; Frederick County, 1 mi. concrete from end of Cont. F-64 toward Rocky Ridge, Cont. F-76; John N. Mackall, Chmn.

Maryland-State Roads Comn., 601 Garrett Bldg., Baltimore, receives bids May 13 for 7 road projects as follows: Allegany County, 1.55 mi. concrete along Oldtown road from Western Maryland Crossing at North Branch to Patterson Depot, Cont. A-26; Prince Georges County, 2 mi. concrete along Defense Highway from end of Cont. P-32 toward Collington, Cont. P-50; Prince Georges County, 2 mi. gravel from Crain Highway toward Croom, Cont. P-45: Baltimore County, 2.14 mi, concrete from Chase toward Cowenton, B-62; Harford County, 1 mi. concrete from end of Contract H-34 toward Dublin Cont. H-37; Caroline County, 1.35 mi. concrete from end of Contract Co-28 to Burrsville, Cont. Co-34; Wicomico County, 2 mi. concrete from end of Contract Wi-23 toward Nanticoke, Cont. Wi-25; John N. Mackall,

Md., Baltimore—Board of Awards receives bids this week to grade, surface, sod, drain and lay concrete on playground and area around School No. 65, Poplar Grove, Franklin, Lanvale and Lafayette; plans, etc., from H. G. Perring, Supvg. Engr.; Mayor Howard W. Jackson, Pres.

Md., Baltimore—City plans paving 3 streets around Stadium; Ellerslie Ave. from Gorsuch to 36th St.; 36th from Ellerslie to Snowdown and Snowdown from 33rd to 36th Sts.; Howard W. Jackson, Mayor.

Miss., Greenwood—City let contract to E. A. Finch, at \$208,705.68, for concrete base

and brick paving, and to Pierce & Beeman, Greenwood, at \$18,147.94 for curb and gutters.

Missouri-State Highway Dept., Jefferson City, receives bids May 20 for 21 road projects as follows: Route 5, Sec. 4, Putnam County, 2.998 mi. 30-ft. graded earth from Lemons south, 17,525 cu. yd. earth; Route 5, Sec. 5, Sullivan County, 30-ft. graded earth from Milan north, 30,400 cu. yd. earth; Chariton County, 2 sections from Salisbury east; Route 10, Sec. 32, 2.632 mi. 30-ft. graded earth, 39,334 cu. yd. earth; Sec. 33, 2.608 mi. 30-ft. graded earth, 21,080 cu. yd. earth; Route 4, Sec. 68, Scotland County, 2.793 mi. 16-ft. gravel from Memphis east, 18,263 cu, yd. earth; 28,147 sq. yd. paving; Route 48-B, Platte County, 4.713 mi. 18-ft. concrete from Parkville south, 9426 cu. yd. earth; 50,017 sq. yd. paving; Cooper County, 2 sections; Route 244-B, 3.873 mi. 18-ft. gravel from Otterville east and west, 69.232 cu. yd. earth and rock, 40,834 sq. yd. paving.

244-C, 3.963 mi. 18-ft. gravel Otterville-Syracuse, 50,884 cu. yd. earth and rock, 41,-650 sq. yd. paving; Route 244-D, Morgan County, 4.553 mi. 18-ft. gravel from Syracuse east and west, 33,228, cu. yd. earth and rock; 48,082 sq. yd. paving; Route 19, Sec. 2, Crawford County, 3.510 mi. 16-ft. gravel from Cuba south, 26,499 cu. yd. earth and rock; 32,946 sq. yd. paving; Route 51, Sec. 3-A, Perry County, .389 ml. 12-ft. gravel from McBride south, 3278 cu. yd. earth and rock; 2570 sq. yd. paving; Route 94, Sec. 6, St. Charles County, 3.598 mi. 12-ft. gravel; St. Charles-W. Alton, 24,867 cu. yd. earth, 25,333 sq. yd. paving; 74-A, Cedar County, 5 mi. 12-ft. gravel from Stockton east, 35,328, sq. yd. paving; Dade County, 2 sections from Lockwood east and west, Route 36, Sec. 16, 2.528 mi. 12-ft. chats, 5133 cu. yd. earth and rock; 2670 cu, yd. paving.

Sec. 17, 2.532 mi. 12-ft. chats, 6790 cu. yd. earth and rock; 3068 cu. yd. paving; Route 16, Sec. 71, Carter County, .170 mi. 26-ft. graded earth, from Elsinore west, 6698 cu. yd. earth; Bollinger County, 2 sections from Marble Hill to Advance; Route 208-C, 1.957 mi. 26-ft. graded earth, 51,394 cu. yd. earth; Sec. D, 1.521 mi. 26-ft. graded earth, 16,340 cu. yd. earth; Route 55, Sec. 8, Mississippi County, 2.185 mi. 16-ft. gravel from Diehlstadt south, 14,108 cu. yd. earth; 20,480

sq. yd. paving; Wayne County, 2 sections; Route 23, Sec. 8, 1.294 mi. 12-ft. gravel from Coldwater north, 7347 cu. yd. earth and rock; 8948 sq. yd. paving; Route 34, Sec. 14, 2.836 mi. 26-ft. graded earth, from Sylvia, east, 21,246 cu. yd. earth and rock; B. H. Piepmeier, Ch. Engr.

Missouri-State Highway Dept., Jefferson City, received low bids for 9 road projects as follows. Lafayette County, 6 sections; Federal and State Project 228-A, 3.856 mi. 34-ft. graded earth from Odessa east, Albert Independence, Mo., \$31,221; 4.055 mi. 34-ft. graded earth, from Odessa east, L. A. Woods Construction Co., Smithville, Mo., \$26,581.68; 228-C, 4.050 mi. 34-ft. graded earth from Odessa east, H. H. Hanenkraff, Kansas City, Mo., \$22,452; 228-D, 4.204 mi. 34-ft. graded earth from Odessa east, L. A. Woods Construction Co., \$38,757; 228-E, 3.865 mi. 34-ft. graded earth from Odessa east, L. A. Wood Construction Co., \$40,405; 228-F, 4.883 mi. 34-ft. graded earth from Concordia east and west, A. W. Mosley, Kansas City, \$32,022; Webster County, 3 sections, from Marshfield north and west; 240-B, 4.793 mi. 34-ft. graded earth, C. E. Johnson & Son, Buffalo, Mo., \$33,855; 240-C, 3.892 mi. 34-ft. graded earth, M. E. Gillioz, Monett, Mo., \$32,299; 240-D, 34-ft. graded earth, Bryant-Rollins Road Co., Waynesville, Mo., \$25,385.

Mo., Bethany—City let contract to Wilson & Wilson, Bethany at \$10,230.41 to pave 2 sections of 20th St. Noted Feb. 7, bids until Feb. 11.

Mo., Boonville—Cooper County plans road building; votes May 13 on \$45,000 bonds. Address County Commrs.

Mo., Kennett—City plans paving Slicer, Clipper, North Jackson and several shorter streets. Address The Mayor.

Mo., Maryville—City will receive bids this month to pave with cement blocks on W. Thompson and W. Lincoln Sts.; W. O. Garrett, Mayor; J. E. Reese, Engr. Noted May 1.

Mo., Nevada—State Highway Comn., Jefferson City, Mo., plans completing east and west highway in Nevada; Vernon County asphalt; \$110,000 available.

Mo., St. Joseph—City let contract to Public Works Co. at \$15,156, to pave with concrete section of 17th St., and to Land Construction Co., at \$14,550.10, to pave with concrete section of 29th St. Address The Mayor.

Mo., St. Joseph-Board of Public Works plans extending 7th St.

Mo., St. Louis—City plans widening Grand Blvd., from Chouteau to Magnolia. Address The Mayor.

North Carolina-State Highway Comn., Raleigh, receives bids May 20 on 12 road projects as follows: No. 107-B, Route 30, Bertie County, 12 mi. 16-ft. paving from Aulander toward Windsor; No. 134, Routes 30 and 3% Gates County, 16.66 mi. grade and top soil or sand clay, from Chowan County line to Virginia State line via Sunbury; No. 212, Routes 10 and 101, Craven County, 9,9 oi, grading and bridges, between Havelock and Carteret County line: 237-B, Route 10, Johnston County, .51 mi. hard surface near Smithfield; No. 266, Route 304, Pamlico County, 5 mi. paved from Bayboro to Vandemere; No. 415, Route 75, Durham County, 7.5 mi. grading and bridges from city limits of Durham to Granville County line; No. 422, Route 50, Franklin County, 4.29 mi, grading and bridges from Franklinton to Vance County line; No. 432, Route 75, Granville County, 7 mi. grading and bridges from Oxford to Tar River; No. 617, Route 74, Cabarrus County, 9 mi. hard surfacing from Concord to Mt. Pleasant; No. 780-B, Route 67, Wilkes County, 11 mi. grading and bridges from foot of mountain to Alleghany County line; No. 791-B, Route 60, 13.4 mi. hard surfacing from Yadkinville to Forsythe County line; No. 812-B, Route 10, Burke County, 4.89 mi. paving from Glen Alpine to Bridgewater; Chas. M. Upham, State Highway Engr.

N. C., Durham—City plans laying cement sidewalks on McMannen St. from Proctor to Cobb; also plans widening sidewalk on Holloway St. 5 ft. from Dillard to Queen. Address The Mayor.

N. C., Greensboro—City let contract to Murray Construction Co., Knoxville, Tenn., at \$490,000 to widen and pave Greene St. with sheet asphalt on 6-in. concrete base; 22,000 sq. yds. widening and paving; 7200 ft. stone curb. Noted April 24.

N. C., Salisbury—Details under Land Oevelonments.

N. C., Sanford—State Highway Comn., Raleigh, let contract to C. D. Rigsbee, Durham, for 1% mi. Jonesboro-Sanford road. Noted April 3.

N. C., Southport—State Highway Comn., Raleigh, receives bids May 20 for 8.13 mi. sand-asphalt road in Dist. No. 3, from Southport toward Supply, Brunswick County, Project 318.

N. C., Wilson—City let contracts to R. G. Lassiter & Co., Oxford, N. C., for various improvements as follows: Curb, gutter and sidewalks, \$94,970; concrete foundation for 59,000 sq. yds. for paving streets, \$67,850; top dressing for street paving, either \$75,520 or \$85,550, depending on surface material used. Noted April 24.

Okla., Chandler—Lincoln County plans building 3 roads, Through Wellston, Chandler Davenport and Stroud; another through Meeker, Chandler and Agra. and third through Meeker and Prague; votes June 10 on \$990,000 bonds. Address Lincoln County Good Roads Assn. Noted May 1.

Okla., Ponca City—City let contract to M. R. Amerman at \$33,580 for 5 blocks brick pavement on Highland Ave.; Geo. Small, Engr. Noted May 1.

S. C., Bennettsville — Marlboro County Commrs. let contracts for 2 roads as follows: Grade, sand-clay surface, build wood truss bridges on 10 ml. road from Five Points near Cheraw to North Carolina State line near Osborne, to J. L. Carroll, Columbia, \$40.000; grade, gravel and sand-clay surface 6 mi. Blenheim - Brownsville - Marion road, from Emanuel's Mill to Dillon County line, to Hendricks & Kennedy, Charlotte, N. C., \$15,000. Noted May 1.

S. C., Greenville—City plans widening Buncombe St. between Butler and Rutherford Sts.; W. D. Neves, City Engr.

S. C., Spartanburg—State and Spartanburg Highway Comn. contemplate extending paving on east Main St. extension to new Pacolet River Bridge at Converse.

S. C., Spartanburg—Details under Land Developments.

S. C., Walterboro—Colleton County plans road building; sold bonds. Address County Commrs.

S. C.. Winnsboro—Fairfield County plans expending \$550,000 for 150 ml. sand clay and top soil roads, and concrete bridges in various sections of County; sold bonds; Lockwood, Greene & Co., Engrs., Spartanburg, S. C.

Tenn., Alton Park Branch, Chattanooga— City let contract to L. C. Smallwood Contracting Co. for combined curb and gutter of following: Ohls Ave. from 42nd to 45th; 45th from Ohls to T. A. G. right-of-way; Highland and Kirkland Aves. from 44th to 45th; 44th from Highland to Kirkland Ave. Noted April 3.

Tenn., Jackson—City voted \$890,000 bonds for municipal improvements: Street Improvement, \$500,000; water plant, \$150,000; schools, \$115,000; city hall, \$125,000; Lawrence Taylor, Mayor. Noted April 3.

Tenn., Memphis—City Comn. plans improving 21 streets and alley, including Evelyn, Calhoun, McLemore, Elzey Aves., and Front, Blythe, Lauderdale, Meda Sts.; contemplates selling bonds.

Tex., Alice—Jim Wells County receives bids May 30 to grade and construct drainage structures on 14.3 mi. State Highway No. 12, 77,762.3 cu. yds. roadway excavation; L. W. S. Mantel, County Engr.

Tex., Alpine — Brewster County receives bids May 29 for 13.88 mi. State Highway No. 3, from Marathon to point 16 mi. west of Pecos County line; 73,662.2 cu. yds. roadway, loose rock, solid rock excavation; 2472.25 sq. yds. 80-in. concrete paving; 1:2:3½; 31,457 lbs. reinforcing steel deformed; A. F. Mitchell, County Engr. Noted May 1.

Tex., Anahuac — Chambers County plans road building in Precinct No. 1; votes May 24 on \$100,000 bonds; Joe F. Wilson, County Judge.

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Tex., Austin—Travis County Commrs. Court receives bids May 22 for concrete structures on 2 sections of roads: 24 ml. Austin-Cameron, and 8 ml. Colton road; O. Leonard, County Engr.; Geo. S. Mathews, County Judge.

Tex., Austin—Travis County receives bids May 22 to grade and construct metal and concrete drainage structures on 2 road projects as follows: 6 mi. Colton Road, 29,161 cu. yds. earth excavation, 35,000 lbs. reinforcing steel, 271 lin. ft. 24-36-48-in. metal culverts; 22 mi. Austin-Cameron road, Sec. A, 46,481 lbs. reinforcing steel; 120 lin. ft. 30 and 36-in. metal culverts; 731.44 cu. yds. concrete; Sec. B, 42,568 lbs. reinforcing steel, 148 lin. ft. 30 and 36-in. metal culverts; 685.94 cu. yds. concrete; Sec. C, 26,028 lbs. reinforcing steel; 24 lin. ft. 30-in. metal culverts; 1083.87 cu. yds. concrete; O. Leonard, County Engr.; Geo. S. Mathews, County Judge.

Tex., Austin—Travis County Commrs. Court receives bids May 26 for concrete structures on 18 mi. Webberville road; also steel highway bridge; O. Leonard, County Engr.; George S. Mathews, County Judge.

Tex., Baird—Callahan County let contract to Tibbetts Construction Co., Mineral Wells, at \$250,000 to grade, construct drainage structures and lay rock base with asphalt macadam surface on 9.62 mi. State Highway No. 1, from Callahan-Eastland County line to point on Bankhead Highway. Noted April 10.

Tex., Blooming Grove—Town plans paving main St. from point near Cotton Belt depot to Roger Loyd residence. Address The Mayor.

Tex., Boston—Bowie County, Precinct No. 1. plans building network of roads from Texarkana and concrete surfaced road west to connect State Highway No. 5 with New Boston, De Kalb and Paris; votes May 24 on \$490,000 bonds. Address County Commrs.

Tex., Boston—Bowie County, New Boston Precinct, plans building road north, south, east and west of New Boston; concrete surface State Highway No. 5, from New Boston to De Kalb; south from New Boston to Sims, and northwest to Malta; voted \$130,000 bonds. Address County Commrs.

Tex., Cameron-Milam County receives

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bids May 30 for 4.09 ml. State Highway No. 43, Federal Aid Project No. 394-B, 29,063.4 cu. yds. roadway excavation; 54,036 lbs. reinforcing steel; A. F. Mitchell, County Engr.

Tex., Cameron—Milam County, Precinct No. 10, plans completing Farrier Highway, including \$180,000 bridge over Brazos River east of Gause; voted \$75,000 bonds. Address County Commrs. Noted April 3.

Tex., Carrizo Springs—Dimmitt County receives bids June 3 for 12.58 mi. gravel State Highway No. 85, State Aid Project No. 483, 20, 406.7 mi. roadway and loose rock excavation; material furnished by County; J. G. Lott, County Engr.; Wm. H. Davis, County Judge.

Tex., Georgetown—Williamson County receives bids May 27 to grade and construct drainage structures on 2 sections of roads as follows: 7.11 mi. Highway No. 74, between Florence and Georgetown, Federal Aid Project No. 418, 70,839 cu. yds. earth, loose rock and solid excavation; 111,800 lbs. reinforcing steel; 8.48 mi. Highway No. 43, between Liberty Hill and Leander, 72,453 cu. yds earth, loose rock, borrow and solid rock excavation; 73,975 lbs. reinforcing steel; plans, etc., from State Highway Dept., Austin, and R. A. Nichols, County Engr., Georgetown.

Tex., Coleman—Coleman County plans road building; votes May 24 on \$100,000 bonds. Address County Commrs.

Tex., Dallas—Dallas County let contract to T. A. Griffen to excavate underpass on Lemmon Ave. road at crossing of St. Louis, Southwestern R. R.

Tex., El Paso-Detalls under Sewer Construction.

Tex., Groesbeck—Limestone County plans road building; votes May 17 on \$75,000 bonds. Address County Commrs.

Tex., Goose Creek—City let contract to Sherman & Yeoman, Goose Creek, at \$84,991.50 for 9 mi. graded, shelled and paved streets. Noted March 6.

Tex., Houston—City plans municipal improvements; will vote June 3 on \$1,350,000 bonds as follows: permanent paving, \$500,000; storm sewers, \$250,000; sanitary sewers, \$200,000; fireboat for ship channel, \$100,000; library, \$300,000; O. F. Holcombe, Mayor. Noted March 27.

Tex., Liberty—Liberty County let contract to Chas. Dick., Cleveland, Tex., at \$20,692.59 to grade and surface 4.16 mi. State Highway No. 35; E. E. Board, Livingston, at \$5017, for drainage structures; T. R. Wilson, County Judge. Noted April 3.

Tex., Marlin—Falls County plans building roads in Road Dist. No. 6; votes May 24 on \$115.000 bonds; J. P. Wehrung, County Engr., Lott, Tex.; W. S. Hunnicutt, County Judge, Marlin.

Tex., Palo Pinto—Palo Pinto County receives bids May 29 for 3.37 mi. concrete curb and brick pavement on State Highway No. 1, 29,686.67 sq. yds. vitrified brick pavement; 35,624 lin. ft. concrete curbing, Federal Aid Project No. 383; G. W. Courter, County Engr.

Tex., Raymondville—Willacy County plans road building; votes May 24 on \$295,000 bonds. Address County Commrs.

Tex., San Marcos—City plans street improvement; votes May 20 on \$25,000 bonds. Address The Mayor.

Tex., Sanderson—Terrell County let contract to Fred P. Holt, Sanderson, at \$185,978.47 for 12.48 mi. gravel road on State Highway No. 3, Federal Aid Project No. 324-B; County to furnish gravel. Noted April 3.

Tex., San Diego—Duval County plans hard surface pavement on State Highway No. 12; votes May 17 on \$400,000 bonds; G. A. Parr, County Judge.

Tex., Waco—City plans street and alley improvements; votes May 31 on \$250,000 bonds; Thos. P. Stone, Mayor.

Tex., Wichita Falls — Wichita County Commrs., Precinct No. 4, plan improving 3 roads; voted \$500,000 bonds; B. D. Sartin, County Judge. Noted April 17.

Va., Alexandria—State Highway Comn., Richmond, Va., receives bids May 13 for 2.2 mi. highway between city limits of Alexandria and Project 113, Fairfax County, Project F-368, 1½-in. binder, and 1½-in. sheet asphalt top; H. G. Shirley, Chmn. Noted May 1.

Va., Bristol-Details under Land Developments.

Va., Cape Charles—City let contract to Robt G. Lassiter & Co., Raleigh, N. C., for about 13,000 sq. yd. asphalt pavement. Noted March 20.

Va., Lynchburg—City plans expending \$17,-500 to grade dump lot at 13th and Court Sts. Address The Mayor.

Va., Lynchburg—City let contract to D. F. Burnett & Co. for concrete sidewalks on Park Ave., Locust, Dale and Wadsworth Sts. Address The Mayor. Noted April 3.

W. Va., Charleston—Kanawha County, Union Dist., let contract to Fayetteville Construction Co., Fayetteville, W. Va., at \$65,-000 to grade and drain 6 mi. Dunbar-Sattes road. Noted April 24.

W. Va., Huntington—City Comn. contemplates extending Washington Blvd., from 5th St. West to 14th St. West; A. B. Maupin, City Engr.

W. Va., Huntington—City receives bids May 15 to grade, curb and pave following: High Drive from Ricketts road to Poulevard; 5th from Boulevard to 9th Ave.; 33rd, between 3rd Ave. and Ohio River; Williams Ave. between 17th and 18th Sts.; plans, etc., from A. B. Maupin, City Engr.

W. Va., Huntington—City Comn. let contracts for brick paving on concrete base with asphalt filler on 3 streets as follows: To Harrison & Dean, at \$4.12 per yd., Jefferson Ave. from Chapman's Lane to Alley between 24th and 25th Sts.; to Amos Trainer, at \$4.30 per yd., 9th Ave. from 26th to 27th St., and at \$4.05 per yd. 5th St. from Buffington to N. High St.

W. Va., Huntington—City Comn. let contracts for paving 7 streets as follows: 34th from 3rd to river bank, George Hinkle; 9th from 26th to 27th, Amos Trainer; Hite Ave. from 28th St. westerly, J. Ullom; 5th from Buffington to N. High, Lucian Bias, \$8357.30; Monroe from 19th to 20th, J. M. Randisch & Co., \$8049; Jefferson from Chapman's lane, Harrison. and Dean, \$5255.40; widen Piedmont road from Adams Ave. to Camden road, J. M. Randisch & Co., \$64,333.

W. Va., Kenova—City plans paving certain streets; contemplates voting on \$200,000 bonds. Address The Mayor.

W. Va., Morgantown—Details under Land Developments.

W. Va., Weston—Lewis County, Court House Dist., plans improving 3 roads: Hard surface 8 mi. Murphy's Creek and Sand Fork road from end of Cox addition road; improve 5 mi. Skin Creek road; and section of Chestut and Arch Sts. in Weston; contemplates \$500,000 · bond issue. Address County Commrs.

W. Va., Williamson—Mingo County Court let contract to Sutton Construction Co., Ashland, Ky., at \$95,000 to grade, drain and bituminous surface 2.5 ml. Marrowbone-Kermit road, Road Project No. 3298. Noted April 3.

Sewer Construction

Ala., Montgomery—Details under Road and Street Construction.

Ark., Little Rock-Details under Road and Street Construction.

D. C., Washington—Dist. Commrs., Room 509 District Bldg. ,receive bids until May 28 to construct about 4470 lin. ft. of sewer, 2 ft., 3 ft., to 9 ft. 3-in.

Fla., Eau Gallie-Details under Land Developments.

Fla., Fort Pierce — Details under Water Works.

Fla., Jacksonville-Details under Land Developments.

Fla., Lakeland—Details under Land Developments.

Fla., Miami-Details under Road and Street Construction.

Fla., Melbourne—City will vote on \$35,000 bonds to construct sewer system. Address the Mayor.

Fla., Palatka—Details under Land Developments.

Fla., Tampa—Details under Land Developments.

Fla., Winter Haven—Details under Land Developments.

Ga., Barnesville — Details under Water-Works

N. C., Durham—City let contract at \$18,-433 to Elliott Building Co. of Hickory, N. C., to lay about 3 miles of 8-in. pipe line. Noted April 25.

N. C., Salisbury—Details under Land Developments.

N. C., Wilson—Details under Water Works. Tenn., Knoxville—City, John C. Borden, Director of Finance, will sell \$200,000 improvements notes to complete Oakwood sewerline; plans have been completed.

Tex., Blooming Grove—Details under Water Works.

Tex., El Paso—City, Mayor Dudley, voted \$1.045.000 bonds, including \$100,000 for sewers; \$105,000 for river protection; \$100,000 for paving; \$95,000 for parks; \$50,000 for street and alley grading; \$49,000 for Rio-Grande street retention wall; \$40,000 for fire-station; \$500,000 for school building; \$9000-for Copia, Dallas and Magoffin drainage. Noted April 10.

Tex., Houston-Details under Road and Street Construction.

Tex., Luling—City is having plans prepared by Koch & Fowler, Engrs., Dallas, Tex., for sewer system and disposal plant; estimated cost \$40,000.

Tex., Merkel—City votes May 14 on \$50,-000 sewer bonds; Municipal Engineering Co., Engrs., Praetorian Bldg., Dallas.

Tex., Waco—City, Tom B. Stone, Mayor, will have plans prepared by Terrell Bartlett Engineering Co., San Antonio, Tex., for sewage-disposal plant; \$350,000 available. Noted May 1.

Va., Bristol—Details under Land Developments.

W. Va., Morgantown—City contemplates voting on \$700,000 bonds for sewer and street improvements; G. H. Bayles, City Mgr.

W. Va., Morgantown—Details under Land. Developments.

W. Va., Princeton—City votes June 10 on \$100,000 sewer and street improvement bonds. Address the Mayor.

W. Va., Shinnston—City, F. F. Robey, Mayor, will construct sewer extension; J. P. McClintock, Engr. Noted April 17.

W. Va., Shinnston-Details under Water Works.

Shipbuilding Plants

Fla., Miami-Merrill-Stevens Co. reported to erect \$60,000 marine ways and sheds, steel and frame construction.

Telephone Systems

Miss., Biloxi - Cumberland Telephone & Telegraph Co. plans placing underground conduits; will later invite bids. E. T. Shaeftail. Company's Engr.

Mo., Springfield-Niangua Telephone Co., H. S. Day, Propr.-Mgr., is rebuilding lines, installing new wire, etc.

N. C., Charlotte-Southern Bell Telephone Co. will expend \$75,000 on additional equipment, all purchased.

N. C., Marion-Marion Telephone Co. increased capital from \$10,000 to \$100,000.

N. C., Wilson-Carolina Telegraph & Telephone Co. plans placing underground conduits,

Textile Mills

S. C., Anderson-Riverside Mill, B. B. Gossett, Pres., will rebuild mill and village damaged by storm; J. E. Sirrine & Co., Engrs., Greenville, S. C.; Fiske-Carter Construction Co., Greenville, has contract for temporary

S. C., Canton-Lydia Cotton Mills have commissioned Lockwood, Greene & Co., Engrs., Atlanta, Ga., to design and supervise installation of power and lighting in old mill and complete electrification of new extension recently completed.

Tenn., Chattanooga-Champion Knitting Mills, Walter C. Champion, Pres., is receiving bids for construction of \$20,000 factory building on Dodson Ave.; 2-story, 50x179 ft., brick construction, increase capacity to 750 doz. pairs hose daily; W. H. Sears, Archt.

Tenn., Johnson City-John L. Boyd Co. of Williamstown, Mass., reported to have acquired site for erection of textile mill.

Tenn., Knoxville-Four Square Hosiery Co., capital \$50,000, incorporated by C. M. Kyle, W. S. Hall and others.

Tex., Dallas-Texas Textile Mills, capital \$5,000,000, incorporated by John W. Wright, Lewis T. Carpenter and others; will construct cotton mills in Texas, first of which will be 25,000 spindle mill at Dallas; manufacture grey goods.

Tex., Houston-Southern Bag & Burlap lately noted incorporated with \$51,000 capital, organized with J. V. Scott, Pres.; Geo. B. Williams, Sec.; has plant for manufacture of burlap bags and cotton bagging; plans for new plant not fully developed; will install printing press, weaving machin-(See Machinery Wanted-Textile ery, etc. Mill Machinery.)

Va., Petersburg-Warner Moore of Richmond, Va. acquired John M. Stearne & Co.'s silk mills on the Appomattox River.

Water Works

Ala., Piedmont-City let contract to R. T. Adderhold of Adderhold Construction Co., Atlanta, Ga. to construct 3,000,000 gal. reservoir; plans by B. M. Hall & Son, Atlanta,

Fla., Eau Gallie-Details under Land Developments.

Fla., Fort Lauderdale-Details under Miscellaneous Construction.

Fla., Fort Pierce-City votes July 1 on \$500,000 bond issue to include the following: \$125,000 for water extension and improvements; \$100,000 for storm and sanitary sew-

ers; \$70,000 for paving; \$50,000 for city hall; \$35,000 for streets and viaducts under and over railroad tracks; \$10,000 for seawall; \$20,000 for two concrete bridges over the canal which runs through north central part of city; \$40,000 for public parks; \$30,000 for jail, fire station and incinerator; \$20,000 for city owned wharves and piers. Address the Mayor, Noted March 27.

Fla., Jacksonville-City, Frank H. Owens, Commr. of Public Utilities, will expend \$25,-000 in extending high pressure water mains in Brentwood Addition.

Fla., Jacksonville-Details under Land Developments.

Fla., Lakeland-Details under Land Developments.

Fla., Melbourne-City is receiving bids on \$75,000 water system and park. Address

Fla., Palatka-Details under Land Developments.

Fla., Tampa-Details under Land Developments.

Fla., Winter Haven-Details under Land Developments.

Ga., Barnesville-City voted \$30,000 water and sewer bonds. Address the Mayor.

Ky., Owensboro-City Commrs, let conto United States Cast Iron Pipe & Foundry Co., Birmingham, Ala., to furnish water mains for extension. Noted May 1.

Md., Baltimore-Board of Awards, V. Bernard Siems, Water Engr., let contract to M. and J. B. McHugh, 892 N. Markoe, Philade!phia, Pa., at \$36,420 for pipe excavation in the northwestern section of city; work includes approximately 18,000 yds. excavating, rock excavation, 1000 ft. of lumber for sheath-

Mo., St. Louis-Board of Public Service, Room 208 City Hall, receives bids until May 13 to furnish all materials, equipment, tools and labor for following work: Constructing railroad tracks with necessary switches, sidings and appurtenances and intake tanks and engine pits at site of new water works at Howard Bend on Missouri River.

Md., St. Michaels-City opens bids May 15 for water tanks and towers; Kastenhuber & Anderson, Engrs., Easton, Md.

Mo., Columbia-Water and Light Committee of City Council, T. H. Rodhouse, Chmn., plans expending \$190,000 during next months for extensions and improvements to water and light plant.

Mo., Malden-Malden Compress Co., L. R. Ray, Supt. is receiving bids for improvements and extensions to water mains for standard outside protection, consisting of 1500 ft. 8-in., 2000 ft. 6-in., mains around plant and 1000 ft. under shed, 12 outside fire hydrants and nine 2-in. inside hydrants, frostproof; L. S. Davis, Engr., Malden, Mo. (See Machinery Wanted)—Pipe (Cast Iron).

N. C., Rutherfordton-Details under Electric Light and Power Plants.

N. C., Salisbury-Details under Land Developments.

N. C., Wilson—City let contract to R. G. Lassiter of Oxford, N. C., at \$20,743 for laying water mains and at \$31,797 for sewers. Noted April 24.

Okla., Newkirk - City defeated \$150,000 water works bonds. Address the Mayor. Noted March 20.

Okla., Oklahoma City-City, M. Peshek, Clk., receives bids until May 20 to construct following improvements to water supply: stoplogs, flashboards, gates and electrical apparatus for reconstructed and extended main dam, Ambursen type; B. M. Hart, City Engr.

Tenn., Jackson-Details under Road and Street Construction.

Tex., Austin-Texas Board of Water Engineers, A. H. Dunlap, has selected 2 sites for proposed erection of reservoirs on Pecos River, cost about \$2,000,000; reservoir will supply water for farmers' independent project at Cedarville, Porterville, Barstow and Grand Falls in Crane, Ward, Pecos and Reeves counties.

Tex., Blooming Grove-City voted \$70,000 bonds for water and sewers. Address The Mayor.

Tex., Denison-City, R. G. Gresham, Sec., receives bids May 12 for repairs to Waterloo dam at old city pumping station; approxi-mate quantities 22,500 cu. yds. of earth, 12.000 lin. ft. of 3x12-in. tongue and grooved sheet piling; C. E. Haydon, City Engr.

Tex., Houston-City let contract at \$11,-168 to Tom Tellepson, to construct West End pumping plant.

Tex., Irving, P. O. Dallas-Irving Water Dist. will vote on \$25,000 water works bonds; W. J. Wright, Pres. Board of Supervisors.

Tex., Yorktown-City will construct 1,000,-000 gal. capacity reservoir, partly concrete. Address the Mayor.

Tex., Waco-J. G. McCaskey has acquired North Waco Artesian Water Co.'s plant; J. G. McCaskey, local manager.

Va., Bristol-Details under Land Develop-

W. Va., Morgantown-Details under Land Developments.

W. Va., Shinnston-City will expend \$45,-000 bonds for installing water plant and sewer system. Address the Mayor.

W. Va., Shinnston-City, F. F. Robey. Mayor, will expend \$10,000 for water works extension, including 250,000 gal. steel tanks; J. P. McClintock, Engr. Noted April 17.

Woodworking Plants

N. C., Oxford-Economy Millwork & Supply Co., capital \$50,000, incorporated by Leo E. Bynum, J. J. Walters and others.

S. C., Columbia-Congaree Cooperage Co., incorporated by W. Hoffman, J. C. Harris and others.

S. C., Conway-The Veneer Manufacturing Co., W. A. Stilley, Sec.-Mgr., will erect 40x 100-ft. building, replacing burned plant; construction by owner; install \$15,000 veneer cutting machinery, all purchased; invite prices on 500-gal, fire pump and 18-in, x 8-ft, lathe for machine shop; daily output 30,000 ft. of 3-ply shipping cases. Noted May 1 (See Machinery Wanted-Pump (Fire); Lathe).

Tex., Grand Prairie-Rick Furniture Co., capital \$50,000, incorporated by L. C. Mc-Douglas, C. L. Morgan and others.

FIRE DAMAGE

Ala., Dothan - Dothan Warehouse Co.'s warehouse; loss \$25,000.

Ala., Selma-Alabama Concrete Products Co.'s auto repair shop.

Ga., Arlington-High school building; address School Board.

Ga., Atlanta-Atlanta Potato Chip Co.'s plant, 567 Marietta St., loss \$10,000.

Ga., Jackson-Butts County Products Co.'s warehouse.

Ky., Allen-Branch of Emmons Hawkins Hdwe. Co., with headquarters in Huntington, W. Va.; Floyd County Bank, Crawford

Hotel, Mountain Inn Hotel, Bailey's restaurant, Chesapeake & Ohio Rwy. station and other buildings; loss \$500,000.

Ky., Bowling Green-G. W. Sturgeon's resi-

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dence, stock barn and smokehouse, near Penn's Chapel.

La., Crowley—A. Kaplan Rice Mill Co.'s office, laboratory and warehouse; oss \$25,-000.

Md., Baltimore—Fred Wolpert & Co.'s bedding manufacturing plant at Taylor St. and B. & O. R. R.; estimated loss \$5000.

Md., Baltimore — Aaron Newman's residence, Aaron and Liberty Heights Ave.

Md., Cambridge — A. R. Lloyd's stave mill near Rhodesdale, loss not estimated.

Mo., St. Louis—Warehouse of the Mississippi Valley Elevator & Grain Co., estimated loss \$25,000.

Miss., Buckatunna—Vaniur Packing Co.'s plant; loss \$15,000.

Mo., Kansas City-Interstate Refinery Co.'s plant; loss \$150,000.

Mo., St. Louis—Building at 6952 Olive St., occupied by Black and White Cab Corp. and the Johnson Automobile Co.; estimated loss \$75,000.

N. C., Pine Bluff—Pine Bluff Inn, owned by Page Trust Co. and operated by J. S. Smith, Virginia Beach; Mother Perkins Hotel, dwellings of D. M. McGlaghlin and Rev. S. A. Ives; total loss \$45,000.

N. C., Wilmington — Princess Building; loss \$75,000.

S. C., Aiken—Stables and wing of Live Oak cottage of Thos. Hitchcock estate; loss \$15,000.

S. C., Aiken—Stables of Thos. Hitchcock; loss \$15,000 to \$20,000.

S. C., Columbia—E. E. Boyer's residence, Pecan Ave., South Shandon; loss \$10,000.

S. C., Jefferson—Buildings owned by Jefferson Bank and occupied by J. W. Pusser, Dr. C. L. Thomas' drug store, buildings owned by G. W. Gregory and occupied by P. A. Nicholson & Son's store and Miller & Miller.

S. C., Rock Hill—Standard Milling Co.'s plant on W. Main St.; loss not estimated.

Tenn., Coalfield—W. B. Crenshaw's residence.

Tenn., Memphis—A. Y. Pearson's partly completed residence; Lombardy; loss \$7000.

Tex., Abilene—High School; loss \$80,000;

address R. D. Green, Supt. of Board of Education.

Tex., Call—The Kirby Lumber Co., Houston, Tex., sawmill; estimated loss \$250,000.

Tex., Colorado—Building owned by Dr. B.
F. Dulaney, loss \$15,000; occupied by Southwestern Bell Telephone Co., Dr. C. L. Root, Price Bros. and Price Auto Co.; total loss \$40,000.

Tex., Corsicana-Morris Fair's store.

Tex., Dallas—I. Rude's store, Elm and Murphy Sts.; loss \$25,000.

Tex., Fort Worth—Portion of plant of the Star Refining Co. on Seventh St.; loss \$50,000

Va., Abingdon — Abingdon Milling Co.'s plant; estimated loss \$25,000.

Va., Farmville—Taylor Manufacturing Co.'s lumber plant; 'loss \$50,000.

Va., Graham—Residences of W. E. George and Monroe Slade.

Va., Portsmouth—Farmers' Manufacturing Co.'s woodworking plant; estimated; loss \$40,000.

Va., Richlands-John H. Smith's residence.

W. Va., Grafton—Grafton Hotel, owned by Baltimore & Ohio Railroad, H. A. Lane, Ch. Engr., Charles and Baltimore Sts., Baltimore; loss \$50,000.

W. Va., Webster Springs—Kelly Hamrick store; postoffice, containing plant of Webster Republican and offices; Klondike Confectionery, Elk Meat Market, E. L. Cutlip's office; loss \$30,000

W. Va., Wheeling—Palace Furniture Co., E. W. Exley, Mgr.; loss in stock \$75,000 and building \$50,000.

Damaged by Storm

Ga., Lawrenceville—Lawrenceville Mills' plant and village; loss \$30,000; Allen Manufacturing Co.'s plant; loss \$25,000.

N. C., Greensboro-Horrell High School building. Address School Board.

S. C., Anderson—Riverside Manufacturing Co.'s plant and village; loss about \$600,000.

Bank and Office

Ala., Birmingham—Richard W. Massey will have completed plans May 15 for 6, 8 or 10-story reinforced concrete fireproof store and office building, 3rd Ave. and 21st St.; 75x 100 ft., yellow pine, hardwood and concrete floors, concrete foundation, hollow and interior tile, metal doors, mail chutes, vault lights, ventilators, ornamental terra cotta, steel sash and trim, wire glass, Barrett roof, cost \$200,000; Wm. Leslie Welton, Archt., 19th floor American Trust Bldg., Birmingham. Noted May 1.

Ark., Little Rock—Gus Blass Co. will remodel 3-story building, 313 Main St., for offices; new elevator, marble and tile in halls; specialty shops on first floor; Mann & Stern, Archts., Little Rock.

Ga., Atlanta—Atlanta Commercial Bank, 790 Marietta St., W. B. Chandler, Pres., will erect bank building and install new equipment; will probably let contract within few weeks.

Ky., Covington—Ben A. Adams Co., Ben A. Adams, Pres., 5th and Madison Sts., will erect \$30,000 office building; 2 stories and basement, about 50x50 ft., brick; B. T. Wisenall, Archt., 2305 Union Central Bldg., Cincinnati, Ohio; bids opened May 1.

Ky., Louisville—Security Bank, Chas. H. Bohner, Pres., plans to erect addition to building, Market and Preston Sts.

La., Pineville—First National Bank leased building instead of erecting structure as lately reported.

Md., Thurmont—Central Trust Co. of Frederick. Md., C. O. Wate, Pres., Thurmont, will erect \$35,000 bank building; 1 story, 33x54 ft.. brick and terra cotta; R. L. Harris, Architect, 13 W. Saratoga St., Baltimore, Md.; bids opened April 30.

Tex., San Antonio—San Antonio Builders' Exchange, 201-07 Bedell Bldg., receives bids May 15 for store and office building, St. Marys and Pecan Sts.; 9 stories, including basement and roof garden, 46x73 ft., concrete frame, brick walls, stone or terra cotta trim, hollow and interior tile, mail chutes, concrete floors and foundation, steel sash and trim, wire glass; Geo. Willis & Emmett T. Jackson, Archts., Chandler Bldg.; M. L. Diver, Engr., Calcasieu Bldg., both San Antonio. Noted March 6.

W. Va., Williamson—National Bank of Commerce, O. K. Early, Cashr., has indefinitely postponed erection of addition to building; Warne, Tucker & Pattison, Archts., Charleston, W. Va. (Noted Feb. 7.)

Churches

Ala., Gadsden—R. H. Hunt Co., Chattanooga, Tenn., advises plans for \$150,000 building for First Baptist Church are only in preliminary stage. Noted Feb. 14.

Ala., Troy—Baptist Church plans to erect \$60,000 to \$75,000 building; accommodate 1500. Address The Pastor.

Ark. Conway—St. Joseph's Catholic Church, Rev. Jos. Publechec, Pastor, will probably start work in Fall on \$60,000 building.

Ark., Little Rock—First M. E. Church, South, L. C. Holman, Chmn., Bldg. Comm., will erect first unit of \$200,000 building; 1 floor for offices for Sunday school missions, publishing house, book rooms and Arkansas Methodist; John P. Almand, Archt., Little Rock; about ready for bids.

D. C., Washington—Hamline M. E. Church, Rev. Jos. Herson, Pastor, 1206 Decatur St., N. W., will erect stone church and community house, 1114 Sixth St. N. W.; 1 and 2 stories and basement, cost \$300,000; C. W. Bolton & Son, Archts., Schaff Bldg., 1505 Race St., Philadelphia, Pa., is receiving blds.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

D. C., Washington—Grand Lodge, Ancient Free and Accepted Masons, Gratz E. Dunkum, Chmn. Gen. Comm., 133 B St. S. E., is raising funds for \$1,500,000 Cathedral, Connecticut and Florida Aves. at 20th St.; architect not selected.

Fla., Lake Worth—Cary Vogel Post, American Legion, plans to erect building.

Fla., Pensacola — Frank Marston Post, American Legion, Sol Levy, Chmn. Bldg. Comm., plans to erect building; advise plans immature.

La., Crowley—Lodge No. 85, Knights of Pythias, will remodel building; L. M. Davies, Chancellor Commdr.

La., Morgan City—Ancient Free and Accepted Masons will erect \$15,000 addition to temple.

Okla., Pawhuska—Wah Sha She Lodge No. 110, A. F. & A. M., receives new bids May 27 for fireproof temple; 4 stories, 50x130 ft., concrete and rubber tile floors, concrete

foundation, tar and gravel roof, hollow and interior tile, metal doors, vaults, mail chutes, ventilators, steel sash and trim, wire glass, cost \$100,000; John O. Bradley & Co., Archts., Pawhuska. Noted April 30.

S. C., Orangeburg—Ancient Free and Accepted Masons will erect temple; J. B. Urquhart, Archt., Columbia, S. C.

S. C., Union—American Legion Post No. 22, Capt. John W. Wilbanks, Cashr., Citizens' Bank, Post Commdr., will erect building, Gadberry and Pinckney Sts.; drawing plans.

Tex., Houston—Knights of Columbus, H. C. Schumacher, Chmn. Bldg. Comm., will probably call for bids within 30 days for \$250,000 building, Crawford Ave. and Walker St.; 5 stories and basement, brick and stone; plans accepted. (Noted Jan. 24.)

Tex., Orange—Madison Lodge No. 126, A. F. & A. M., A. G. Thomas, Worshipful Master, plans to erect temple.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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D. C., Washington—National Cathedral Foundation, 1417 K St. N. W., will let contracts next week for transcepts and 2 naves of Cathedral of Saints Peter and Paul, Mount St. Alban; Ernst M. Skinner Co., 215 Sydney St., Boston, will install \$100,000 pipe organ; Frohman, Robb & Little, Archts., 140 Boylston St., both Boston, Mass. Noted Sept. 27.

Fla., Leesburg-Baptist Church will select architect for building. Address the Pastor.

Fla., St. Petersburg—Community Church will erect hollow tile and reinforced concrete tabernacle, 5th Ave. and 10th St.; main auditorium and balcony; seat 5000 or 6000; Edgar Ferdon, Archt., St. Petersburg; advises nothing yet definite.

Ga., Savannah — St. Paul's Evangelical Lutheran Church, Geo. W. Hunt, Chmn. Bldg. Comm., will erect \$75,000 parish house, Bull and 31st Sts.; W. B. Clarke, Archt., Savannah.

Ky.. Lexington—Porter Memorial Baptist Church, Rev. H. E. Gabvy, 210 State St., will erect brick church and Sunday-school building, S. Limestone and Avalon Sts., 1 story and basement: John T. Gillig, Archt.-Engr., 10 Union Station Bldg., Lexington.

Ky., Louisville—Crescent Hill M. E. Church, Rev. Baxter Napler, 2406 Frankfort Ave., will erect \$165,000 church and Sundayschool building. Frankfort and Peterson Aves.; 2 stories and basement, brick and stone; Paul Moosemiller, Archt., care Bankers Mortgage Co., Kenyon Bldg., Louisville.

Ky., Louisville—St. Mark's Episcopal Church, Rev. J. H. Brown, 2822 Frankfort Ave., will alter and erect addition to building; 2 stories and basement, brick and stone, cost \$55,000; Paul Moosemiller, Archt., Bankers Mortgage Co., Kenyon Bldg., Louisville, receiving bids.

La., Bastrop—Methodist Church will receive bids within 30 days for brick and concrete building; cost \$25,000. Address The Pastor.

Md., Aquasco—St. Mary's P. E. Church, Rev. Chas. E. Crusoe, pastor, is having plans drawn for community hall to replace burned structure.

Md., Baltimore — Second Presbyterian Church, Rev. R. G. Leetch, Pastor, Baltimore and Lloyd Sts., will probably not let contract before first week in June for Church Community House, St. Paul St. and Charlcote Rd.; 2 additional buildings to be erected; total cost \$250,000; Edw. L. Palmer, Archt., 513 N. Charles St., Baltimore. Noted Feb. 7.

Mo., Columbia—Primitive Baptist Church, considers erecting building. Address the Pastor.

Miss., Charleston — First Presbyterian Church will erect \$10.000 ordinary type building; 3 stories, 33x64 ft., pine and concrete floors, hollow tile, asphalt shingle roof; Jas. E. Greene, Archt., 809 American Trust Bldg., Birmingham, Ala. Address Jas. A. Blount, Charleston. Noted May 1.

Miss., Laurel—West Laurel Baptist Church is having plans prepared by Jas. E. Greene, Birmingham, Ala., for \$30,000 building; Harry Smallwood, W. Y. Harrison, and others, Finance Comm. Noted Oct. 1.

Miss., Starkville—Baptist Church plans to improve building. Address the Pastor.

Mo., Cape Girardeau—First Baptist Church will sell present structure and erect \$125,-000 building near State Teachers' College. Address the Pastor.

Mo., Kansas City—St. George Episcopal Church, care Chas. R. Tyner, 1318 E. 30th St., plans to erect \$100,000 building, 2917 Tracey Ave.; 2 stories and basement, brick and stone.

Mo., St. Louis-Southampton Presbyterian

Church considers erecting building. Address the Pastor.

Mo., West Plains—Christian Church will erect 30,000 building on site of present structure. Address the Pastor,

N. C., Charlotte—Statesville Avenue A. R. P. Church, S. E. Hilton, Chmn. Bldg. Comm., plans to erect \$20,000 brick veneer building; F. L. Bonfoey, Conslt. Archt., 6 N. Tryon St., Charlotte.

N. C., High Point—Wesley M. E. Church, South, Fred N. Tate, Chmn., Bldg. Comm., selected C. C. Hartmann, Greensboro, N. C., as architect for remodeling and enlarging sunday school; cost \$75,000 to \$100,000; local material and contractor. Noted Feb. 21.

N. C., Salisbury — St. Paul's Lutheran Church, L. C. Cauble, Chmn., Bldg. Comm., R. F. D. No. 2, receives bids May 10 for church and Sunday school building on Concord road; plans and specifications from Mr. Cauble and Percy Bloxam, Struct. Engr., Community Bldg., both Salisbury.

Okla., Bartlesville—United Brethren Church will probably soon start work on building, 3rd and Seneca Aves. Address the Pastor.

S. C., Gaffney—Buford Street Methodist Charch, Major Henry C. Moore, Chmn., Finance Comm., plans to erect Sunday school addition.

S. C., Seneca—Seneca Baptist Church will open bids around May 10 for rough and face brick building: 72x110x30 ft., heavy tin or slate roof, rift, pine floors; H. Beauchamp, Archt., Dallas, Tex. Address W. P. Nimmons, member, Bldg. Comm., Seneca. Noted April 3.

Tenn., Covington — Second Methodist Church, Rev. R. W. Newsom, Pastor, will erect brick building to replace burned structure.

Tenn., Nashville—McFerrin Memorial and Alex. Erwin M. E. Churches plan to consolidate and erect \$75,000 joint building in East Nashville; former congregation noted April 3 to erect \$26,000 Sunday school annex. Address the Pastors.

Tex., Bullard—Methodist Church considers erecting \$30,000 brick and stone building. Address the Pastor.

Tex., Dallas—Exposition Avenue Presbyterian Church, Rev. W. H. Baker, pastor, will erect \$40,000 building to replace burned structure, work to start within 2 months.

Tex., Edinburg — Methodist Church will erect reinforced concrete foundation, face brick and hollow tile main auditorium; seat 500; Sunday school to be erected later; total cost \$40,000; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio, Tex.

Tex., Raymondville—Methodist Church will erect \$35,000 building; face brick and hollow tlle, reinforced concrete foundation, seat 500; Ralph H. Cameron, Archt.. City National Bank Bldg., San Antonio, Tex.

Tex., San Antonio—Broadway Baptist Church, Rev. Hulen Carrol, Pastor, will erect \$75,000 brick and stucco building; capacity 1200.

Tex., San Antonio—Baptist Church will erect \$60,000 building; reinforced concrete foundation, hollow tile and face brick; auditorium to seat 900; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio; competitive bids.

Tex., Waco—St. James' Methodist Church, Colored, will erect \$45,000 building, 2nd and Clay Sts. Address The Pastor.

W. Va., Bluefield — Sacred Heart R. C. Church, Rev. W. M. Burke, Pastor, will erect \$65,000 building, N. Mercer St.; 1 story, balcony and basement, 65x27 ft., stone; Edw. J. Weber, Archt., K. of C. Bldg., Pittsburgh, Pa.; blds opened May 7.

W. Va., Morgantown—Rev. O. H. Baker, 580 Spruce St., Pastor Baptist Church, advises contract for \$150,000 building will not be let until 1925. Noted Dec. 6.

W. Va., Parkersburg—Seventh Street United Brethren Church, Rev. W. H. Scott, Pastor, will remodel and erect addition to building; 2 stories and basement, brick, cost \$30,000; T. T. Sansbury, Archt., Guaranty Bldg., Parkersburg.

W. Va., Rivesville—Methodist Episcopal Church, South, will erect Sunday school annex; work to start about May 1. Address the Pastor.

W. Va., Welch — Methodist Church purchased site, 'Riverside Drive, and is reported to consider erecting building. Address the Pastor.

City and County

Ala., Birmingham—Fire Station—City Commissioners, D. E. McLendon, Pres., rejected bids for fire station in Wylam; E. B. Van Keuren, Archt., Birmingham. Noted April 24

. Fla., Bartow—Municipal Auditorium—City, R. B. Huffaker, Mayor Commr., rejected bids for municipal auditorium; W. B. & W. D. Talley, Archts., Lakeland, Fla., will redraw plans. Noted April 3.

Fla., Fort Pierce—City Hall, Jail, Fire Station, etc.—City will vote July 1 on \$500,000 bonds, including \$50,000 for city hall and \$30,000 for jail, fire station and incinerator. Address the Mayor.

Ky., Bowling Green—Jail—Warren County Commrs. considering erection of jail.

Ky., Louisville—Memorial Auditorium—City, Judge Robt. W. Bingham, care Louisville Memorial Courier Journal, member Louisville Memorial Comm., will erect \$1,250,000 memorial auditorium; site not selected; Carrere and Hastings, Shreve and Lamb, Archts., 53 Vanderbilt Ave., New York City; E. T. Hutchings, Asso. Archt., Carter Guaranty Bldg., 416 S. 5th St., Louisville; Technical Advisory Corp., Technical Advisor, 15 Park Row, New York City; preliminary plans. Noted May 1.

Md., Baltimore—Aviary and Animal House—Board of Awards, Mayor Howard W. Jackson, Pres., has low bid at \$327.000 from J. Henry Miller, Inc., Eutaw and Franklin Sts., for combined aviary and animal house at Druid Hill Park; Theo. Wells Pietsch, Archt., American Bidg., both Baltimore. Noted May 1.

Miss., Biloxi—Library—Board of Library Commrs. will erect municipal library, Lameuse St.; bonds voted.

Miss., Waynesboro—Courthouse Annex—Wayne County, I. H. Vick, Pres. Board of Supervisors, is placing material on ground for \$8000 to \$10,000 addition to courthouse for Chancery Cik.'s office; brick, 2 stories, 34x40 ft., reinforced concrete floors, metal ceilings, concrete foundation, metal shingle roof, vaults, vault lights, steel sash and trim; Vick & Martin, Archts., Waynesboro; bids opened May 6. Address E. L. Martin, Chan. Cik. Noted May 1. (See Mchy. Wanted—Steel Sash and Window Frame; Vault Lights.)

N. C., Durham—Fire Stations—City, R. W. Rigsby, City Mgr., is having plans drawn by Milburn, Heister & Co., Union Savings Bank Bldg., Washington, D. C. and Durham, for fire station on Holloway St. and 1 on south side of railroad; will probably install new fire alarm system in former. Noted Nov. 15.

N. C., Greensboro—City Hall—City, P. C. Painter, City Mgr., approved plans by Harry Barton, Greensboro, for \$350,000 city hall, N. Greene and W. Gaston Sts., Classic type, Indiana limestone and Mount Airy granite exterior, 4 stories and basement, 95x112 ft.;

offices in basement, offices and lobby on first floor, municipal courtroom, etc., on second, engineering dept., etc., on third and city jail on fourth. Noted March 27.

Okla., Tonkawa—Community Hall — City will vote May 13 on community hall bonds; cost about \$50,000. Address the Mayor.

Okla., Wewoka — Courthouse — Seminole County, Ellis Cooper, County Clk., receives bids May 19 for fireproof courthouse; plans and specifications from Monnot & Reid, Archts., Oklahoma City, Okla., and on record in office of Mr. Cooper. Jewell Hicks & W. T. Emerick, Oklahoma City, noted architects March 13.

S. C., Winnsboro—Jail—Fairfield County Jail Comsn., W. D. Douglas, J. J. Obear and Ernest Gladden, members, selected Winnsboro and Washington Sts. as site for jail.

Tenn., Columbia—Fire Station—City will erect fire station, N. Main St.; Richardson Lumber Co., Archt., Columbia, Florence, Ala., and Alpena, Mich.

Tenn., Jackson—City Hall—City, Lawrence Taylor, Mayor, voted \$890,000 bonds, including \$125,000 for city hall. Noted March 13.

Tex., El Paso—Fire Stations—City, Mayor Dudley, voted \$1,045,000 bonds, including \$40,000 for fire stations. Noted April 10.

Tex., Houston—Library—City, Rev. Harris Masterson, Chmn. Library Board Bldg. Comm., Autry House, Rice Inst., will erect \$50,000 branch library, Heights Blvd. and 13th St.; plans by W. A. Dowdy, City Archt., Houston.

Tex., San Antonio—Municipal Auditorium—City, John W. Tobin, Mayor, will have completed plans within 45 days for \$1,000,000 municipal auditorium; fireproof, reinforced concrete, frame, steel trusses over auditorium, stone faced exterior walls, Mission tile roof, tile and cement, floors, corridors, toilets, etc.; heating and ventilating system; seat 6000; Atlee B. & Robt. M. Ayres, 626-27 Bedell Bldg., Geo. Willis and Emmett Jackson, Archts., all San Antonio. Noted April 17.

Tex., Shallowater — Clubhouse — Lubbock County Commrs.' Court, P. F. Brown, County Judge, receives bids May 12 for clubhouse on Country Park Grounds near Shallowater; plans and specifications from Judge Brown. Lubbock.

W. Va., Franklin—Courthouse—Pendleton county, E. W. Dolly, Clk., will vote May 27 on \$48,000 bonds to rebuild courthouse, noted burned April 24.

Dwellings

Ala., Anniston—Niel P. Sterne, care Knox, Acker, Sterne & Liles, Anniston and Talladega, Ala., is having plans and specifications prepared by Miller & Martin, Birmingham, Ala., for residence on Sunset Drive. Noted April 10.

Ala., Birmingham—Mrs. Wm. H. Stockham will erect \$40,000 residence, Argyle Rd.

Ala., Fairfield—C. J. Donald Real Estate & Insurance Co., Fairfield; Edw. Warren, Birmingham, and others, members of Corey-Highlands Land Co. will erect 100 bungalows; total cost over \$100,000.

D. C., Washington—Alvin V. Eckert, 807 H St. N. W., will erect \$19,000 Italian villa, 3202 Cleveland Ave., Massachusetts Park, N. W.; 2½ stories, 32x37 ft., stucco; Lawrence P. Johnson, 8 Grafton St., Chevy Chase, Md.

D. C., Washington—Mrs. Marshall Field, 2600 Sixteenth St., N. W., will erect \$50,000 residence and garage, Mossmore St., N. W.; 3 stories, 26x90 ft., brick; G. Oakley Totten, Jr., Architect, 808 Seventeenth St., N. W., Washington.

D. C., Washington—L. B. Patterson, care
T. M. Medford, Archt., 1621 Third St., N.

W., will erect 2-story, 18x34 ft., brick residence, Albemarle St., N. W.

D. C., Washington—C. D. Ruth, 1862 Mintwood Place, N. W., will erect \$10,000 residence, Woodland Drive, Massachusetts Park; 2½ stories, 26x40 ft., Denison tile and stucco. Lawrence P. Johnson, Archt., 8 Grafton St., Chevy Chase, Md.

D. C., Washington—Scott E. Welker, Dresden Apt., will erect \$35,000 residence, Nebraska Ave. near Warren St.; 2 stories, 25x 70 ft., stone and brick; Victor Mindeleff, Archt., 4416 Klingle St., N. W., Washington, receiving bids.

Fla., Bradentown—Frank S. Hefner will erect residence.

Fla., Daytona—Geo. M. Faith will erect number of Florida type bungalows, Ridgewood St., near Loomis St.

Fla., Daytona—Theo. H. Cowee, care R. E. Oliver, will erect residence for personal use and about 50 additional dwellings; construction to start in fall.

Fla., Miami—D. S. Clark will erect \$10,000 residence and garage, 237 S. W. 20th Rd., Holleman, Park; 48x30 ft. and 12x18 ft., cement blocks; J. P. Turner, Archt., Miami.

Fla., Miami Beach—Carl G. Fisher Properties will erect 14 additional dwellings during summer; cost \$10,000 to \$15,000 each; contracts let in about 60 days; have also completed plans for \$12,000 residence to be occupied by Capt. C. C. Tippett.

Fla., Miami Beach—S. B. Sampson will erect \$18,000 Spanish residence in Shenandoah; 2 stories, reinforced concrete and hollow tile; John H. Schulthorpe, Archt., Miami Beach.

Fla., Titusville — Titusville Securities Corp., J. J. Parrish, Pres., will erect 6 Spanish bungalows; cost \$4000 to \$6000 each.

Ky., Glomwar—Reliance Coal & Coke Co. will erect 12 additional miners' houses; contract in 2 weeks.

Ky., Louisville — Bay Heer will erect 5 dwellings, 4615-17-21-23-25 Herman St.; cost \$2500 each.

Ky., Louisville — J. B. Lukins, Francis Bldg., 2611 Virginia Ave., will erect brick veneer and stucco residence, Eastern Parkway Castle; 2 stories and basement, 40x30 ft.; Ossian P. Ward, Archt., 1501 Lincoln Trust Bldg., Louisville.

Ky., Louisville—Abbot McMillian Co. will erect 8 dwellings, 2206-12-18-20-22-24, 2206-12-14-18-20-22-24 and 2308 Weber St.; cost \$2750 each.

Ky., Whitesburg—Ace Coal Co. will erect 10 miners' houses; contract at once.

Ky., Hazard—John Robinson will erect \$10,000 residence; contract about May 10.

La., Baton Rouge—A. F. Cazedessus will erect number of dwellings.

La., Minden—Will Fitzgerald will erect residence.

La., New Orleans—H. T. Bartekeism, 402 Carondelet Bldg., will erect residence, Dupre and O'Reilly Sts.; bids opened May 1.

La., New Orleans—Dr. R. H. Welsh will erect \$12,000 residence, Walnut, 6th and Audubon Sts.

La., New Orleans—M. Sazer will erect 4 double cottages; total cost \$20,000.

La., New Orleans—Wm. Terry will erect 2story double residence, Royal St. near Port St.

La., New Orleans—V. Lanza wil erect raised bungalow, City Investment Co. section of Gentilly Gardens.

Md., Baltimore—Dr. Thos. K. Galvin, 225 between W. Monument St., will erect \$12,000 brick \$18,750.

residence, 3809 Juniper Rd.; 21/2 stories, 36x 25x32 ft.

Md., Baltimore—Parker, Thomas & Rice, Union Trust Bldg., are preparing plans for \$50,000 brick residence, Bellona Ave.; 2½ stories; owner, care Luke Hopkins, Drovers & Mechanics National Bank, Eutaw and Fayette Sts.

Md., Baltimore—Loyola Construction Co., Inc., 2600 Loyola Heights Ave., will erect 23 two-story brick dwellings, 2500-44 Oswego Ave.; total cost \$45,000.

Md., Baltimore—Milburn Realty Co., Eastern Ave. and 18th St., will erect 26 two-story brick dwellings, 500 block S. 18th St.; total cost \$63,000; each 16x40x28 ft.

Md., Baltimore—H. S. Miller, Equitable Bldg., will erect residence, S. side Bellona Ave., near Charles Street Ave.

Md., Baltimore—James Peters will erect 15 two-story brick dwellings, 1300-28 W. 41st St.; total cost \$36,000.

Md., Baltimore—Ideal Homes Co. will erect 8 frame dwellings, W. side Whiteford Ave. near Winston Ave.; total cost \$34,000.

Md., Havre de Grace—Louis Good will erect \$15,000 residence; 2½ stories, 36x26 ft., brick; Robt. L. Harris, Archt., 13 W. Saratoga St., Baltimore, Md.; bids opened May 1.

Md., Port Deposit—Dr. G. Richards, Tome Inst., will erect \$50,000 residence on campus; 2½ stories, 43x46 ft., stone; A. C. Borzner, Archt., 717 Walnut St., Philadelphia, Pa.

Mo., Joplin-Chas. Ewing will erect residence, Roanoke addition.

Mo., Joplin—Globe and News Herald will erect model home, Hampton Rd. and Jackson Ave., Roanoke addition.

Mo., Joplin—Geo. F. Smithley will erect residence, Roanoke addition.

Mo., Joplin—Dr. Jas. I. Tyree plans to erect residence, Jackson Ave. and Richmond Rd., Roanoke addition.

Mo., Joplin—J. K. Wingert will erect \$20,000 residence, Hampton Rd. and Roanoke Ave., Roanoke addition.

Mo., Kansas City—Geo. W. Miller, Sec.-Treas. Gregg Realty Co., Bonfils Bldg., contemplates erecting \$\$40,000 two-story residence, Oakwood Rd. and Mission Drive.

N. C., Asheville—L. B. Jackson will erect 4 dwellings; total cost \$20,000.

N. C., Charlotte—T. C. Guthrie will erect \$20,000 brick veneer residence; 60x70 ft., tile roof, oak floors, vapor system of heat; M. R. Marsh, Archt., 224 Latta Arcade, Charlotte, finishing plans.

N. C., Charlotte-Chas. E. Lambeth will erect residence; Harold Tatum, Archt., Columbia, S. C.

N. C., Charlotte—F. R. Webber will erect \$17,000 brick veneer residence; tile roof, oak floors, hot water heat, interior tile; M. R. Marsh, Archt., 224 Latta Arcade, Charlotte, will probably finish plans this week.

N. C., Charlotte—F. G. Cobb will erect \$12,000 residence, Avondale Ave. near Kingston Ave.; 2 stories, 16 rooms, brick veneer; F. L. Bonfoey, Archt., Charlotte.

N. C., Gastonia—Robt. Goldberg will erect \$80,000 residence, Fairmont Park.

N. C., Gastonia-R. O. Harbin will erect residence, Fairmont Park.

N. C., Gastonia—John W. Kirby will erect residence, Fairmont Park.

N. C., Gastonia—W. H. Saunders will erect residence, Fairmont Park.

N. C., Greensboro—Residence Development Co. will erect 10 dwellings on Stedman St. between Salem and Albany Sts.; total cost \$18.750.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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N. C., High Point—Dr. S. S. Coe will erect \$10,000 residence in Emerywood.

N. C., Raleigh—A. H. Arrington will erect \$10,000 residence, 509 Person St.

S. C., Florence—Dr. M. R. Mobley will erect hollow tile and stucco Colonial residence; hardwood and rift pine floors, face brick mantels and trim, green tile roof, brick and concrete foundation, 2 stories;; cost about \$20.000; Wilkins & Hopkins, Archts., Florence; bids opened May 7.

S. C., Spartanburg—S. J. DuPre will erect \$10,000 residence, Glendalyn Ave.; 2 stories, 9 rooms.

S. C., Spartanburg—C. H. Henry purchased 4-acre tract, Spring St. and N. Irwin Ave., and will erect 24 bungalows, 5 and 6 rooms; cost \$5000 and \$6000 each.

S. C., Sumter—H. C. Bland will erect English type residence; tile roof, hardwood floors, tile trim; Lafaye & Lafaye, Archts., Columbia, S. C.

S. C., Sumter—First Presbyterian Church will erect manse; Wilson, Berryman & Kennedy, Archts., Wilson, N. C.; Gastonia, N. C., and Columbia, S. C.

Tenn., Knoxville—Earl S. Worsham will erect 3 brick veneer dwellings, White Ave. and 13th St.; total cost \$12,000.

Tenn., Maryville—New Providence Presbyterian Church, Dr. W. H. Crothers, pastor. will erect parsonage,

Tex., Dallas—D. W. Boone will erect 3 frame cottages, 3816-20-24 Roseland St.; 5 rooms; total cost \$12,000.

Tex., Dallas—Z. E. Marvin will erect \$60,000 semi-Italian type residence, Swiss Ave.; 2 stories, part basement, hollow tile and stucco, tile roof; Ralph H. Cameron, Archt., Ciry National Bank Bidg., San Antonio, Tex.

Tex., Dallas—E. C. Clark will erect two 6-room brick veneer cottages, 2202 and 2304 Garrett St.; cost \$6000 each.

Tex., Medina Lake—Jack W. Neal will erect 2-story stone country residence; cost \$25,-000; Atlee B. and Robt. M. Ayres, Archts., Bedell Bldg., San Antonio, Tex.

Tex., New Braunfels—W. H. Gerlich will erect \$12,000 tile and stucco residence; heating plant; Seutter & Simons, Archts., San Antonio, Tex.; bids opened May 8.

Tex., San Antonio—T. W. Masterson will erect \$25,000 residence, Oakmont addition; tile and stucco or brick, slate roof; Thomson & Swaine, Archts., 1203 Southwest Life Bldg., Dallas, Tex.

Tex., San Antonio—Dr. E. J. Arendt will erect \$12,000 residence, Holly Wood Blvd.; hollow tile and stucco; R. Vander Straten, Archt., Hicks Bldg., San Antonio, will complete plans in about 3 weeks.

Tex., San Antonio—Alfred Duerler, 210 E. Elmira St., will erect \$25,000 Old English type residence; 10 to 12 rooms; Aug. A. Herff Co., Archts., San Antonio.

Tex., San Antonio—D. Johnson, Johnson Shirt Co., will erect 2-story residence, Alamo Heights; frame and stucco on metal lath; lath and plaster interior; tile floor and wainscoting in 2 baths; oak floors, hot air heat; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio, Tex. Noted April 17.

Tex., San Antonio—Wm. Kleid, 1020 Mason St., will erect \$12,000 frame and stucco residence, Woodlawn Hills.

Tex., San Antonio—Wm. Stroeck, 208 Carolina St., will erect \$10,000 residence, Queen Anne Court, Laurel Heights Place.

Va., Lynchburg—Mrs. Nora A. Diuguid and Miss Mary Diuguid will erect two 3-family dwellings on Diuguid Lane near Warwick St.; total cost \$24,000. W. Va., Bluefield-Dr. I. M. Smith will erect \$10,000 two-story brick residence.

W. Va., Charleston—Y. E. Woodrum will erect \$13,000 residence, Chester Rd.

W. Va., Fairmont—South Side Land Co. will erect 4 dwellings, 14th St. and Park Ave.

W. Va., Fairmont—Watson, Fleming & Miller Co. will erect 4 dwellings, Virginia Ave. opposite Virginia Ave. School, and plans to erect 3, Virginia Ave. and 13th St. one, 9th St. and Gaston Ave.

W. Va., Huntington—Mrs. G. W. Keller, 1137 Third Ave., will erect \$15,000 residence; 2 stories and basement, brick and tile; Levi J. Dean, Archt., 605 Simms Keller Bidg., Huntington.

W. Va., Huntington—S. W. Patterson will erect \$40,000 English type residence; 2 stories and basement, stone, stucco and hollow tile; C. C. & E. A. Weber, Archts., Ingalls Bldg., Cincinnati, Ohio.

W. Va.. Wheeling—Louis D. Grubb, Register Bldg., is finishing plans for \$15,000 English Colonial and \$12,000 Dutch Colonial type dwellings, Hazlett Court; 2 stories and basement, 36x42 ft., 26x36 ft.; brick and stucco on frame; ready for bids on Dutch type residence.

W. Va., Wheeling—G. Lutz, 122 S. 19th St., will erect \$15,000 residence; 2 stories and basement, 40x95 ft., frame; C. R. Vester, Archt., McClain Bldg., Wheeling; ready for bids.

W. Va., Wheeling—Ada Owens and Raymond Duffy, Edgewood St., will erect 2 dwellings; cost \$15,000, 2 stories and basement, 30x34 ft., brick, tile and stone; Albert F. Dayton, Archt., Valley View Ave., Wheeling.

Government and State

W. Va., Logan—Postoffice—J. G. McGuire & G. W. Raike will erect \$35,000 building, 420 Main St.; 2 stories, 36x100 ft., brick; will be leased to Government for postoffice; R. M. Wilson. Archt., Logan.

Hospitals, Sanitariums, Etc.

Ala., Montgomery—Montgomery Memorial Hospital will erect children's pavilion; cost \$60,000, exclusive of equipment and furnishings; Gen. R. E. Steiner, Mrs. W. B. Crumpton and others, Board of Trustees.

Ga., Waycross—King's Daughters Hospital Steering Comm., Q. L. Garrett, Chmn., plans to enlarge building; install elevator .

Mo., St. Louis—Christian Hospital Assn., Dr. C. A. Mellies, Chmn. Bldg. Comm., opens bids about May 15 for 4-story reinforced concrete, brick and stone hospital, Carter, Newstead and Taylor Aves.; 40x120 ft. and 40x80 ft.; concrete, terrazzo, tile and cork floors, built-up roof, steam heat, central lighting plant. 2 high-speed elevators, hollow and interior tile, metal doors, vaults, mail chutes, steel sash and trim, wire glass. Address Hoener, Baum & Froese, Archts., 3540 North Grand Blvd., St. Louis. Noted Aug. 16.

N. C., Clinton—Sampson County Commrs. considering erecting hospital; may call bond election.

Okla., McAlester—Ancient Free and Accepted Masons, Frank Craig, A. U. Thomas and Dr. L. S. Willour, members of Comm., plan .to erect Indian Consistory Hospital; Masons are also reported to purchase All Saints' Hospital, remodel and enlarge and install equipment.

S. C., Columbia—South Carolina State Hospital, Dr. Ernest Cooper, Supt., will erect women's infirmary and superintendent's residence; Wilson, Berryman & Kennedy, Architects, Wilson, N. C., Gastonia, N. C., and Columbia, S. C.

Tenn., Chattanooga — Board of Trustees of Baroness Erlanger Hospital has low bid on general contract at \$89,916 from T. S. Moudy & Co. and wiring, plumbing and heating at \$17,000 from Fred Cantrell & Co. for nurses' home; R. H. Hunt Co., Archts., all Chattanooga. Noted April 24.

Tenn., Dayton—A. P. Haggard, Progressive Dayton Club, and others are interested in erection of \$40,000 hospital.

Tex., Austin—Board of Control, S. B. Cowell, Chmn., has following low bids for remodeling former State Blind Inst. and School of Military Aeronauties as auxiliary asylum for senile insane: Women's building, Bridson Bros., \$9832; men's, Mackmore Bros., \$16,-719; wiring, John Wattingler, \$1488; plumbing, Donnely & White, \$5125, all Austin. Noted April 24.

Tex., Comanche — Lions' Club is interested in calling election on \$50,000 bonds for Comanche county hospital. Address County Commrs.

Tex., Graham—Chamber of Commerce, M. K. Graham and others, interested in erection of \$40,000 hospital.

Tex., Lubbock—Lubbock Sanitarium Dr. M. C. Overton, will probably let contract in May for 3-story brick fireproof addition; 40 to 45 rooms.

Tex., McAllen—City is having plans prepared by Paul G. Silber & Co., 331 Bedell Bldg., San Antonio, for \$25,000 two-story brick veneer hospital. Noted Jan. 10.

Hotels and Apartments

Ala., Birmingham—A. A. Gambill of A. A. Gambill Realty Co. and associates have purchased for out-of-town interest property at S. E. corner Sixth ave., north and Seventeenth St., and are reported to contemplate erecting apartment hotel to cost between \$500.000 and \$1.000.000.

Ala., Sylacauga — Knight Hotel contemplates 20-room annex.

Fla., Belleair—Bowman Hotel Interests, E. E. Carlet, Vice-pres., owners of Belleview Hotel, have plans in progress by Richie, Parsons & Taylor, Boston, Mass., and Frank Jonesburg, St. Petersburg, for 600-room addition and remodeling; \$500,000. Noted April 17.

Fla., Daytona Beach—J. A. Davis has plans and specifications by H. S. Gove, Daytona, for \$100,000, 3-story, 55 or 60-room hotel, Main and Coates Sts.; hollow tile, inlaid with brick and with stucco finish; 3 stores on ground floor.

Fla., Fort Lauderdale—W. Gray, 4836 Sheridan Road, Chicago, Ill., is receiving bids for 3-story hotel.

Fla., Howey—W. J. Howey contemplates erecting first unit of tourist hotel; 150 rooms, steel and concrete,

Fla., Melbourne—Mr. and Mrs. N. F. Hey, Tillman, have purchased lots north side Palm Bay and contemplates erecting 12apartment building.

Fla., Miami—Mrs. Mary Creighton has plans in progress by W. F. Brown, Miami, for Spanish type, 4-apartment building, Drexel Ave.

Fla., Miami—Glickman Realty Co. contemplates erecting 2 apartment houses; \$60,000 each.

Fla., M'ami—Henry Seitlin contemplates erecting \$12,000, 2-story, cement block, 4suite apartment building, 110 N. E. 23rd St.

Fla., Miami-J. W. Atkinson, prop. Acacia

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Hotel, Colorado Springs, Colo., is reported to contemplate erecting tourist hotel.

Fla., Miami—Stauss-Brown Realty Co., composed of Geo. A. Brown, Ernest A. Stauss and S. M. Grodin, have leased Royalton Hotel, 134-8 E. Flagler St., and contemplate razing for erection of 10-story, \$400,000, reinforced concrete hotel; hollow tile curtain walls, 2 stores on first floor 20x85 ft. each, with entrance to lobby between; Pfeiffer & O'Reilly, Archt., Miami.

Fla., Miami—Fred W. Scales contemplates erecting \$26,000, 2-story, concrete and tile hotel addition, 720 N. Miami Ave.; 50x75 ft.

Fla., Miami—I. L. Hickson contemplates erecting 3-unit, \$45,000 apartment, 603 S. W. Seventeenth St.; 1 unit 2 stories, 37x50 ft., 8 apartments; other two 44x50 ft., 1-story, 4 apartments each.

Fla., St. Petersburg—Nell and Margaret Young have purchased N. W. cor. Ninth St. south and Sixth Ave., and are reported to contemplate erecting apartment building.

Ga., Atlanta—J. H. Whisenant has purchased 87x200 ft., Ponce de Leon and Seminole Aves., and is reported to contemplate erecting \$100,000, 30-family apartment house.

Ga., Thomasville—D. H. McFarlan, representing American City Bureau, is conducting campaign for \$100,000 hotel. Address Chamber of Commerce.

Ky., Louisville—Louis Stavitsky, care Simon Stavitzki, 231 W. Market St., contemplates erecting \$80,000, 3 or 4-story, 60x160 ft., brick store and apartment building, 625-27 W. Broadway.

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Ky., Paducah—Hughes McKnight has purchased Craig Hotel, Fifth and Jefferson Sts., and contemplates addition and remodeling and improving present building.

Md., Baltimore—Edward Morris Construction Co. contemplates erecting four 2-story, \$36,000. brick, duplex apartments, Auchentorely Ter.

Miss., Starkville—Starkville Hotel Co. will receive bids about May 15 for erecting \$60,000, 3-story, 38-room, brick and stucco hotel; 106x69 ft.. concrete foundation, wood tile and concrete floors, composition and tile roof, hollow tile, ventilators, ornamental terra cotta; Page & Richey have contract for excavating; N. W. Overstreet, Archt., Jackson. Noted April 24.

Mo., Kansas City — Morris Sapre, 4006 Paseo, will award contract in 2 weeks for 3 apartment buildings; 3 stories and basement, 40x258 ft., brick walls, oak, tile and concrete floors, stone and brick foundations, partitions, hollow tile, interior tile, mail chutes, ornamental terra cotta, metal stairs, steam heat, conduit system lighting, 3 passenger elevators; J. Francis Thompson, Archt., 615-16 Massachusetts Bldg., Kansas

Mo., St. Louis—Hotel Jefferson Co. has plans in progress by T. P. Barnett & Co., Arcade Bldg., St. Louis, and will let contract in 60 to 90 days for erecting 13-story, \$2,100.000, reinforced concrete, 102x150 ft. hotel, 12th Blvd. and Locust St.; hollow tile, vaults, mail chutes, concrete floors, ventilators, ornamental terra cotta. Noted May 1.

Mo., St. Louis—Jefferson Hotel Co., Lyman T. Hay, Pres.-Treas., contemplates erecting 13-story, \$1,000,000, reinforced concrete addition to Jefferson Hotel; 150x102 ft.; T. P. Barnett & Co., Archts., Arcade Bldg., St. Louis. Noted May 1.

N. C., Beaufort—Beaufort Development Co., W. P. Smith, Pres., has purchased Hotel Inlet Inn and contemplates remodeling or erecting new building; \$100,000.

Okla., Okmulgee—Smith & Senter, Archts.,

advise that erection of \$650,000 hotel for Creek Hotel Co., W. B. Pine, Pres., has been indefinitely postponed. Noted Jan. 10.

Okla., Ponca City—J. T. Myatt, 318 W. Grand Ave., has plans in progress by H. R. Vorhe's, 208 S. 1st St., Ponca City, for 3-story and basement, \$100,000, reinforced concrete, brick and terra cotta hotel; 100x140 ft., reinforced concrete foundation, 4-ply built-up roof, terrazzo, tile, concrete and oak flooring, hollow tile, interior tile, metal cellings, ventilators, ornamental terra cotta, rolling partitions, wire glass, vapor system heating, conduit I ghting, 1 passenger elevator. Noted May 1.

Tenn., Memphis—Smith & Burnham prepared plans for 20-efficiency suite apartment building, Rembert St. and Poplar Ave. for undisclosed client of J. Frazier Smith, Archt., Memphis; 135x150 ft., Italian renaissance, yellow and orange face brick and brown stone, tile roof, wrought iron balconies and grills.

Tenn., Murfreesboro—Hockenbury System, Inc., Harrisonburg, Pa., has made survey for 50 to 65-room, \$150,000 hotel.

Tex., Dallas—R. E. Fox contemplates erecting two 8-room, brick veneer 2 apartment buildings, 2216-18 2301-03 N. Garrett St.; Total \$12,000.

Tex., Dallas—Conrad N. Hilton, Pres. of Waldorf Hotel, and group of Iowa men contemplate erecting \$1,000,000, 300-room, 14story hotel, Harwood and Main Sts.; 100x75 ft.; Lang & Witchell, Archts., Dallas.

Tex., McAllen—Casa De Palmas Hotel will extend wings; 35 rooms, \$100,000; plans drawn and accepted.

W. Va., Charleston—Adler & Bloomberg contemplate erecting \$10,000 apartment, 816 Indiana Ave.

W. Va., Charleston—W. J. Builtman contemplates remodeling and addition of apartment to 2002 Kanawha St.; \$50,000, 52 rooms, 3 stories, concrete foundation, oak and concrete flooring, combination roof, brick on tile construction, hollow tile, interior tile, ventilators, ornamental terra cotta.

W. Va., Grafton—Baltimore & Ohio Railway, H. A. Lane, Ch. Engr., Charles and Baltimore Sts., Baltimore, Md., contemplates rebuilding Hotel Grafton, recently damaged by fire at \$50,000 loss.

W. Va., Huntington—J. E. Peck has plans and will soon erect \$25,000, 2-story, brick, four 6-room apartment building, 12th St.

W. Va., Huntington—D. A. and R. C. Rossman contemplate erecting 25-room, brick, \$13,500, apartment, Charleston Ave. and 13th St.

Miscellaneous

D. C., Brightwood (Sta. Washington)—Convent—Church of the Nativity has plans in progress by Milburn, Heister & Co., Union Savings Bank Bldg., Washington, for Sister's Convent building; plans and specifications ready in 30 days.

D. C., Washington—Turkish Bath—Milburn, Heister & Co., Union Savings Bank Bldg., are preparing plans and specificatious, to be ready June 1, for turkish bath building on E St. to accommodate 100.

D. C., Washington—Home—Henry and Annie Hurt Home for Blind has plans in progress by A. B. Mullett & Co., Union Trust Bldg., Washington, for \$250,000 home.

D. C., Washington—Peace Memorial—National Carillon Assn., 723-25 Colorado Bldg., is receiving contributions for National Peace Carillon; 350 ft. high; contain 54 bells; designed by Prof. P. Cret, F. A. I. A., 516 Woodland Ter., Philadelphia, Pa.

Fla., Miami—Clubhouse and library—Miami Woman's Club authorized August Geiger, Miami, to prepare plans for Flagler Memorial Library and Clubhouse on Biscayne Bay in Miramar; \$225,000.

Fla., Miami—Clubhouse—F. Dow Van Vechten, New York and Miami, prop. of Ambassador Hotel, 151 N. E. First St., has leased Trinity Episcopal Rectory, 129 N. E. Second Ave., and contemplates remodeling and converting into clubhouse; first floor for dining rooms and 2 upper floors for guests' rooms.

Ga., Augusta—Home—Colored Old Folks Home, Amelia Sullivan, Chmn. of Comm., will erect first unit of home, Twiggs St.

Ky., Henderson—Clubhouse — Henderson Golf and Country Club, Inc., Harry E. Thixton, has plans in progress by Harry E. Boyle & Co., 405 Furniture Bldg., Evansville, Ind., for 2-story, 48x60 ft., stucco and concrete clubhouse; golf course; Archt. not selected; 830,000.

Ky., Louisville—Home—E. W. Smith, Owensboro, Chmn. of Comm. in charge of drive for building fund for Kentucky Children's Home Society.

Md., Baltimore—Chas. A. Hicks, Park Heights Ave., contemplates \$17,000 brick addition to 911-13 W. 36th St.; 26x125x25 ft.

Miss., Columbia—Clubhouse — Columbia Rod and Gun Club contemplates erecting clubhouse.

Mo., Noel—Camp—Rotarian Club has secured tract between Noel and Ginger Blue as site for Rotarian City; \$10,000 will be expended for permanent improvements.

N. C., Rutherfordton n—Rutherfordton Country Club, H. C. Harris, member of comm., contemplate purchasing property for golf links, tennis courts, etc.

N. C., Wilmington—Thos, H. Wright contemplates rebuilding Princess Building, recently damaged by fire at \$75,000 loss, for offices or apartments.

Okla., Hominy—Clubhouse—Jno. O. Bradley & Co., Archts., Pawhuska, have completed plans and are receiving bids for \$10,000 country club building.

Tenn., Knoxville—Funeral Home—E. B. Mann Undertaking Co., Arthur Mann, Pres., contemplates erecting \$100,000, 2-story and basement funeral home; 70x90 ft.

Tex., Dallas—Baby Camp—Dallas Co-operative Club has plans by Guy A. Cahoon of Associated International Archts, for Dallas Graduate Nurses' Baby Camp and Hospital; Ira P. DeLoache, Chmu. of Comm. to raise \$50,000; Spanish design, roof sun parlor. Noted April 10.

Tex., Dallas—Leake Estate contemplates erecting \$10,000 second-story addition, 2103 Canton St.

Tex.. Dallas—Camp—Dal-Oak Golf Club is constructing automobile tourist camp for Dallas Automobile Club; 10 huts 10x14 ft., swimming pool, bathhouses, community kitchen; contemplate road house with restaurant and dance hall.

Tex., Fort Worth—Auditorium—Woman's Club, Miss Anna Shelton, Pres., contemplates erecting \$100,000 auditorium.

Tex., Franklin—Fair Buildings—County
Farm Agent will soon let contract for County
Fair buildings.

Tex., Waxahachie—Community Building—Chamber of Commerce, J. B. Graham, Sec., is promoting erection of community building.

Railway Stations, Sheds, Etc.

Ala., Attalla—Southern Railway, Henry W. Miller, Vice-Pres., Washington, D. C.; Louis-

ville & Nashville Rwy. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky.; Nashville, Chattanooga & St. Louis Rwy., H. McDonald, Ch. Engr., Nashville; and Alabama Great Southern R. R. Co., J. B. Munson, Vice-Pres., Southern Rwy. Bldg., Cincinnatl, Ohio, have been requested to erect passenger depot. Ry. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., contemplates erecting \$25,000

freight and passenger depot.

Mo., Columbia—Wabash Railway Co., R.
H. Howard, Ch. Engr., St. Louis, contemplates
erecting freight depot, warehouse and extension tracks; construction about Aug. 1.

Tenn., McKenzie—Nashville, Chattanooga & St. Louis Rwy., H. McDonalds, Ch. Eugr., Nashville and Louisville & Nashville Rwy. Co., W. H. Courtenay, Ch. Engr., Louisville, Ky., have petition requiring erection of depot.

Fla., Leesburg—Atlantic Coast Line Rwy. Co., J. E. Willoughby, Ch. Engr.. Wilmington, N. C., contemplates improvements to depot.

Tex., Taylor — International-Great Northern R. R. Co., F. S. Schwinn, Ch. Engr., Houston, contemplates remodeling depot.

Schools

Ala., Birmingham—City will vote May 13 on \$1,500,000 school bond issue. Noted April 10.

Ala., Spring Hill—Spring Hill College contemplates expenditure of \$1,000,000; present building to be remodeled and turned over to high school; plans include administration building, \$100,000; Mobile building, \$400,000; alumni building, \$400,000. Address Andrew C. Smith. Noted April 24 at Sand Hill.

Ala., Sylacauga—City voted \$40,000 bonds for completing State Secondary Agricultural School building.

Ala., Tuscaloosa—Tuscaloosa County Board of Education, W. E. Bingham, Pres., opened bids May 5 for erecting 3-room frame building, Watermelon Road.

Ala., Tuscaloosa—University of Alabama will start construction last of May of \$150,-000 library building.

Ark, Pine Bluff—School Board has plans in progress by Mitchell Selligman, Pine Bluff, for high school, Tenth and Beech Sts.

D. C., Washington—St. John's College contemplates erecting addition, Vermont Ave.; will house gymnasium, swimming pool, auditorium, rifie range, stage, armory, showers and 2 classrooms, basketball court and track on roof inclosed in steel cage; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., and Durham, N. C. Noted Sept. 27.

Fla., Clermont—Lake County Board of Public Instruction, F. L. Owens, Chmn., Tavares, will open bids May 19 for high school building: plans and specifications can be obtained from Alan J. MacDonough, Archt., Eustis, Fla.

Fla., Clearwater—Pinellas County Board of Education has sold \$225,000 bonds for erecting school and additions to present buildings.

Ky., Clay—Board of Education, M. M. Davic, Chmn., opened bids for erecting 2-story and basement brick and joist, \$57,000 building; Jack Cole, Paducah, low bidder; 138x 152 ft., concrete foundation, built-up asphalt roof, concrete, yellow pine and maple floors, wire glass, steel sash and trim; Alfred E. Neucks, Archt., 605 Old Bank Bldg., Evansville, Ind. Noted May 1.

Ky., Louisville — St. Benedict's Roman Catholic Congregation, Rev. Father Francis O'Connor, 2325 Osage St., has plans in progress by J. J. Gaffney, 437 E. 2nd St., Louisville, for \$30,000, 3-story and basement, brick school building, 23d and Osage Ave.

Ky., Paducah—Dr. Vernon Blythe, Pres. School Board, is director of campaign for \$17,500 for athletic field and steel and concrete grandstand at Tilghman.

La., Monroe—Ouachita Parish School Board contemplates erecting 3-story school building; J. W. Smith, Archt., Monroe. Bids opened May S.

La., New Iberia—Iberia School Board selected Valentine grounds as site for \$150,000 high school.

La., Norwood—East Feliciana Parish School Board, R. H. McCullough, Sec.-Treas., will open bids May 13 for repairing and improving school building.

La., Shreveport—Caddo Parish School Board, E. W. Jones, Supt., selected West Landscape Co., Chicago, III., to draw plans and specifications for landscaping 20-acre campus of proposed high school, Line Ave. and Kings Highway. Noted Jan. 17.

Md., Baltimore—Public Improvement Comn., Maryland Casulty Bldg., has purchased 72 pieces of property in Canton, for \$500,000, 2-story and basement, brick and steel elementary building; Wyatt & Nolting, Archts., 1012-15 Keyser Bldg., Baltimore. Noted Jan. 31.

Md., Baltimore—Wyman Park Improvement Assn., J. W. P. Insley, Pres., Abell Bldg., has requested School Board to erect school building in Wyman Park district.

Md., Baltimore—Goucher College has acquired 3-story brick residence, 2219 N. Charles St., and contemplates remodeling for student quarters.

Md., Gaithersburg — St. Martin's R. C. Church, Rev. J. S. Cuddy, pastor, is ready for bids on fireproof parochial school; concrete, brick and stone, 2 stories, 50x90 ft., concrete, wood and linoleum floors concrete foundation, slag roof, hollow tile, steel sash and trim, wire glass; Geo. R. Callis, Jr., Archt., 1800 Hearst Tower Bldg., Baltimore, Md. Noted May 1.

Miss., A. and M. College—Senior Class of Mississippi A. and M. College, Jack Stone, Pres., has plans by N. W. Overstreet, Jackson, for first section of reinforced concrete stadium, Scott Field; 30 ft. long, 15 ft. tiers high, seat 300.

Miss., Biloxi—J. J. Kennedy, Mayor, will open bids May 14 for erecting school building; separate bids on general contract, plumbing and heating and wiring; Carl E. Matthes, Archt., Gay Bldg., Biloxi.

Miss., Meridian-Board of School Trustees, H. M. Ivy, Sec., will open bids May 22 for junior high, remodel senior high and Manual Arts Building, remodel and build annex to East End (white and colored), West End (white and colored), South Side and Weschler Schools, also install plumbing, wiring, heating and program clock system; plans and information may be obtained from P. Krouse, Archt., Meridian; also receive bids at same time and place for new Mario Park elementary, South Side negro and remodel Stevenson and Tuxedo elementary schools, extend and remodel Highland elementary; also installing plumbing, heating, wiring and program clock system; plans and informa-tion may be secured from Burt Stuart, Archt., Meridian.

Miss., Taylorsville—City voted \$25,000 bonds for rebuilding consolidated school; address Smith County Board of Education, Raleigh.

Mo., Columbia—Stephens College, J. M. Wood, Pres., has plans in progress by Jamieson & Spearl, Arcade Bldg., St. Louis, for \$100,000, 4-story, brick and stone dormitory. Noted April 24.

Mo., Harrisburg-Harrisburg, Bethlehem,

Powell, Robinson, Givens and Arnett districts voted to consolidate for maintenance of high school; contemplate \$15,000 bond issue. Address School Board.

Mo., Kansas City—St. James' Church, Rev. J. W. Keys, Pastot, has plans by Edgar P. Madorie, 1106 Republic Bldg., Kansas City, and is calling for bids for 2-story and basement, \$60,000, 10-clssroom and auditorium brick, concrete and steel school, 40th St. and Tracy Ave.; composition and clay tile roof, 124x36 ft., wood and concrete flooring, stone and concrete foundations, metal doors, ornamental terra cotta, steel sash and trim, dark brick trimmings, terra cotta entrance, buff colored brick, vapor vacuum system heating; open bids on sub-contracts May 12. Noted April 21.

Mo., Kahoka—G. H. A. Martin, clerk of District No. 42, will open bids May 10 for school building.

N. C., Durham—Durham County Board of Education will award contract May 14 for erecting \$30,000, 8-room, auditorium and office building in Bethesda Consolidated School District; W. C. Northup, Archt., Winston-Salem. Noted March 27.

N. C., Kinston—Lenoir County Board of Education approved plans by Liston Mallard and L. M. Boney, Goldsboro, for \$60,000 14-room school near Grainger, to serve Contneatnea Consolidated District; will open bids May 15.

N. C., Morven—School Board, Prof. J. E. Lorance, will open bids May 12 for brick school building.

N. C., Salisbury — School Committee, T. Wingate Andrews, Supt., has retained E. S. Draper, Landscape Archt. and Engr., Charlotte, to make surveys and plans for development of proposed high school grounds and athletic field; C. Gadsden Sayre, Archt., Anderson, S. C., and Raleigh, N. C. Noted April 24.

Okla., Broken Arrow—Board of Education, W. T. Brumbaugh, Clerk, has preliminary plans in progress by A. J. Love & Co., Tulsa, for \$65,000 building; bonds not voted.

Okla., Elmore—Board of Education contemplates erecting \$24,300, 8-room and auditorium, unit type school; tar and gravel roof, y. p. finish, concrete floors and foundation, steam heat, electric lighting; Butler Co., Archts., Oklahoma City. Bids closed April 24. Noted Feb. 7—voted bonds.

Okla., Haskell—Board of Education, Dr. Schakelford, Clerk, has plans in progress by A. J. Love & Co., Tulsa, for 2-story, brick and stone building; 83x100 ft.; contemplate bond election.

Okla., Hooker—Board of Education contemplates erecting \$40,000 school and gymnasium; Butler Co., Archts., Oklahoma City, Bond election held April 25.

Okla., Okmulgee—School Board rejected all bids for erecting McKinney school; Smith & Senter, Okmulgee, are preparing new plans and will readvertise. Noted March 13.

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Okla., Sand Springs—School Board will not erect high school as reported; will erect \$15,000 building and repair present building; A. J. Love & Co., Archts., Tulsa, Noted April 17.

Okla., Stillwater—State Board of Agriculture, c/o Jno. Whitehurst, Chmn.; contemplates erecting two \$150,000, 3-story and basement, brick and stone girls' and boys' dormitories.

Okla., Sulphur Springs—Board of Education contemplates erecting 10 and 12-room ward school buildings; \$25,000 each; Butler Co., Archts., Oklahoma City. Bond election held April 24.

S. C., Charleston—Board of Trustees of High School, M. V. Haselden, Chmn., contemplates erecting addition to high school; Benson & Barbot, Archts., Charleston. Bids opened May 7.

S. C., Columbia—School Board contemplates erecting \$49,000, 2-story brick school building, 2700 block Divine St., and \$51,500, 2story brick school for negroes, Blanding and Williams Sts.

S. C., Florence—Board of School Commrs. of Florence School District, Dr. N. W. Hicks, Chmn., will open bids May 19 for erection and heating and plumbing Public Library building; Wilkins & Hopkins, Archts., Florence, S. C.

S. C., Greenville—Woodville community voted \$13,000 bond issue for high school unit. Address School Board.

S. C., Laurens—Board of Trustees, C. H. Roper, Sec., will receive bids at Enterprise Bank until May 22 for erecting high school and public schools; drawings and specifications may be seen at office Edwards & Sayward, Archts., 101 Marietta St., Atlanta, Ga., C. H. Roper, and Builders Exchanges, Atlanta, Ga., Greenville and Columbia, S. C. Noted March 27—voted \$185,000 bonds.

S. C., Parksville—Parksville, Modoc, Carks Hill and Meriwether schools will combine and contemplate bond election for erecting \$35,-000 building. Address School Trustees.

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S. C., Spartanburg—Board of School Trustees, E. S. Tenent, Chmn., has plans in progress by Spartanburg office of Lockwood, Greene & Co. of Boston, Mass., and Atlanta, Ga., for annex to high school; also plans by Collins & Simpson, Spartanburg, for new building for Fremont school and will open bids May 15 for hollow tile and frame, 8-room addition to Southside school; 56x80 ft., 2 stories and basement, maple and pine flooring, tin roof, brick foundation. Noted March 6 to contemplate \$250,000 bond issue.

S. C., Trenton—Board of Education, B. R. Day, Chmn., will open bids May 9 for brick and frame 4-room addition to 2-story school building; tile roof, brick foundation, tin shingle roof, steam heat; Scroggs & Ewing, Archts., Augusta, Ga. Noted May 1.

S. C., Williamston — Trustees of School District No. 20 have purchased Williamston Female College buildings and will convert into central school plant. Noted April 17—voted \$40,000 bonds.

S. C., Woodruff-Woodruff School District No. 33 voted \$50,000 bonds for high school.

Tenn., Chattanooga—School Board, Fred B. Frazier, Chmn. will open bids May 9 for \$20,000 addition to Central Grammar school; W. H. Sears, Archt., Chattanooga.

Tenn., Erwin — Cumberland Presbyterian Church contemplates erecting mission school; address Rev. John E. Cobb, Knoxville.

Tenn., Jackson—City voted \$890,000 bond issue, \$115,000 for school purposes. Address Lawrence Taylor, Mayor. Noted April 3.

Tenn., Mosheim—F. S. Butler and J. M. Hull are members building comm. for proposed \$35,000 to \$40,000 school.

Tex., Austin—School Board, Dr. Geo. M. Decherd, Pres., opens bids May 9 for remodeling Senior high school; includes sub-dividing hallway into 8 classrooms, overhauling auditorium, renovating interior, fireproof hallways and stairs, opera chairs; H. F. Kuehne, Archt., 824 Littlefield Bldg., Austin.

Tex., Beaumont—W. C. Gilbert, Gilbert Bldg. and Graham & Tetley, Engrs., Weed Bldg., have plans and specifications for con-

crete grandstand, tennis courts, sidewalks and fence for Lynn Gilbert Athletic field.

Tex., Beeville—Beevile Independent School District, John R. Beasley, Pres. Board of Trustees, will call election May 10 on \$30,000 school bonds.

Tex., Dalhart—Board of Trustees of Dalhart Independent Consolidated School District of Dalham and Hartley Counties, F. E. Thomas, Sec., will call election May 23 to vote on \$10,000 bonds.

Tex., Dalworth—International School of Industrial Arts, C. C. Waller, Pres., Dallas, contemplates immediate construction of 12 concrete buildings.

Tex., Darrousette—Board of Education contemplates erecting \$20,000 brick addition and auditorium to present building; tar and gravel roof, concrete foundation, concrete and pine flooring; Butler Co., Archts., Oklahoma City. Bids closed May 1.

Tex., Dodsonville—Board of Trustees, O. M. Gould, Sec., opened bids May 6 for 2-story, \$15,000, brick building; wood with concrete base flooring, concrete foundations, metal ceilings, steel sash and trim; E. H. Eads, Archt., Chickasha, Okla. Noted May 2.

Tex., El Paso-City voted \$1,045,000 tond issue, of which \$500 600 will be used for school purposes. Noted April 10.

Texa, Galveston—Alumpi of University of Texas Medical School are formulating plans for \$200,000 outdoor clinic building.

Tex., Lubbock — Lubbock Independent School District will vote May 20 on \$125,000 bonds for high school addition; address Pres. Board of Trustees. Noted April 10.

Tex., Orange Grove—Board of Education, Jim December, Sec., has plans in progress by Glesecke & Harris, Littlefield Bldg., Austin, for 2-story brick school, Common District No. 15.

Tex., Parker—Parker School District will vote May 17 on \$20,000 school bond issue. Address Pres. School Board.

Tex., Pharr—Pharr-San Juan School Districts have plans in progress by P. G. Silber & Co., San Antonio, for three 1-story brick, 5-classroom and office ward buildings.

Tex., Paint Rock—Board of Trustees Paint Rock Independent School District, A. J. Hall, Sec., will open bids May 16 for brick and concrete school building to repiace structure recently destroyed by fire; Arthur A. Swartz, Archt., San Angelo Noted Feb. 21.

Tex., Port Neches—School Board, C. C. Hawkins, Pres., has preliminary plans in progress by R. H. Hunt, Dallas, for \$100,000, brick, stone and reinforced concrete high school; contemplate \$150,000 bond election. Noted April 17.

Tex., Roscoe—City votes May 24 on \$295,-000 school bonds. Address Pres. School Board.

Tex., Southand—Board of Education will open bids May 15 for \$35,000, 10-room and auditorium building; steam heat plant, tar and gravel roof, pine finish, concrete floors and foundation; Butler Co., Archts., Oklahoma City.

Va., Danville—School Board will call election June 10 to vote on \$350,000 school bonds. Noted March 20.

Va., Hopewell—City will vote May 9 on \$200,000 school bond issue. Address School Board. Noted Feb. 28.

W. Va., Arden—Board of Education of Arden District, M. E. Gano, Sec., M. & F. Bank Bldg., Martinsburg, will open bids May 14 for erecting 4-room brick school building; C. E. Kent, Archt., Martinsburg.

W. Va., Industrial—Clark District contemplates levy for erecting elementary school.

W. Va., Jane Lew—Jane Lew District Board of Education and Hacker's Creek District contemplate joint district high school.

W. Va., Summerville—School Board contemplates, erecting \$40,000 gymnasium at Nicholas County High school.

Stores

' Ala., Bay Minette-Henry D. Moorer will erect brick and concrete business block.

Fla., Bradentown—V-Dollar Limit Store, R. M. Beall, Mgr., will erect building East Manatee Ave.; 52x145 ft., face brick front, stucco and cement trimmings, brick side walls, plate glass front, 8 suites of offices above; American Enterprises, Inc., Bradentown, will erect and finance.

Fla., DeLand—Conrad Realty Co. contemplates erecting 3-story, brick, store and office building, South Woodlawn Blvd. and Short St.

Fla., Miami—R. C. Gardner contemplates erecting \$100,000 building for Tip Top Grocery Co.

Fla., Miami—A. C. Converse contemplates erecting \$20,000, 3-story business building, S. E. First Ave. and First St.

Fla., Miami—Hart Hardware Co. will expend \$12,500 for remodeling and installing elevator.

Fla., West Palm Beach—Palm Beach Mercantile Co. opened bids for erecting 4-story, \$150,000 business building, Datura and Narcissus Sts.; C. J. Meerdink, West Palm Beach, low bidder at \$119,000; contract not awarded. Noted April 3.

Ky., Louisville—T. P. Taylor & Co., 458 S. 4th St., has plans in progress by Arthur G. Tafel, 306 Coleman Bldg., Louisville, for remodeling store room, 3rd and Walnut Sts.

La., Waynesville—Richie Pineff, Magnolia, Ark., cqutemplates erecting 1-story brick building; 34x110 ft.

La., New Orleans—J. Watkins White contemplates erecting 2-story, brick, stucco and hollow tile building, Oak and Dublin Sts.; 3 stores on ground floor and offices above; elevator, electric lighting.

Md., Baltimore—Hart & Stoetzer, Inc., 10 W. Saratoga St., have acquired 4-story residence, 514 Cathedral St., and contemplate remodeling.

Mo., Kansas City—Jas. M. Raber, 1120 Commerce Bldg., has plans in progress by Walker A. Besecke, 611 Title & Trust Bldg., Kansas City, for erecting 1-story, brick, tile and concrete storerooms, S. E. corner 43rd and Indiana Sts.; 49x136 ft., composition roof, cement floors, stone and concrete foundation, hollow tile. Noted May 1—Bank and Office.

Mo., Kansas City—Swenson Construction Co. contemplates remodeling building, 1109 Main St.; \$15,000.

S. C., Camden—M. H. Heyman & Co. have plans by J. Carroll Johnson, Columbia, and will soon award contract for store building; face brick front trimmed in limestone, granite base under show windows and piers, concrete floors covered with linoleum.

Tenn., Greenville—S. B. LaRue is excavating for \$30,000 3-story building, Depot St., to be occupied by M. Snyder's department store.

Tenn., Memphis—Estes, Williams & Ragsdale advise that they do not have contract for erecting store building for D. A. Robinson, 249 Washington Ave. Noted May 1.

Tenn., Memphis—Joe Summerfield has leased store, North Main St., and has plans

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in progress by Mahan & Broadwell, Nemphis, for extensive improvements; brick and stone trim with cast stone cornice; plate glass display windows.

Tex., Beaumont—J. E. Schingler contemplates erecting \$10,450 store and apartment building, Sabine Pass Ave.

Tex., Bertram—Wilson Park, B. F. Warden, B. H. Goode and J. W. Chance have plans in progress by Giesecke & Harris, 520 Littlefield Bldg., Austin, for 4 brick store buildings; total \$30.000; 1-story, 30x126 ft., 2-story, 30x60 ft., two 1-story 30x60 ft. each.

Tex., Cleburne—Mayor W. H. Goldsmith, Cleburne, and Herman Duncan and Jake Tobolosky. Alvarado, contemplate erecting 1story brick business building, South Caddo St.: 60x200 ft.

Tex., Dallas—Sanger Bros. have plans by Lang & Witchell, Dallas, for \$150,000 teinforced concrete, brick walls, 4-stories and basement store building, Jackson and Poydras Sts.; 95x117 ft., tar and gravel roof, concrete and wood floors, hollow tile, interior tile, metal doors, ventilators, steel sash and trim, wire glass, pressed brick and stone from; bids opened May 7. Noted May 1.

Tex., Fort Worth—Mr. and Mrs. J. I. Bergess have plans in progress by W. G. Clarkson, First National Bank Bldg., Fort Worth, for \$300,000, 6-story department store building, Fifth and Houston Sts.; 100x100 ft.; will be leased by Sanger Bros., Joe W. Sanger, Mgr. Noted March 20.

Tex., Fort Worth—Tillar Fidelity Co. has plans in progress by Sanguinet, Staats & Hedrick, Fort Worth, for 3-story and basement, 100x100 ft. building, Fifth and Houston Sts., to be used by Monnig Dry Goods Co. Noted April 24 incorrectly.

Tex., Gatesville—Byron Leaird will open bids May 10 for erecting new front and 1-story addition to store building; \$12,000, 60x90 ft., wood flooring, stone and concrete foundations, metal ceilings, metal doors, ventilators, ornamenfal terra cotta, steel sash and trim, wire glass; M. W. Scott & Co., Archts., Waco. Noted May 1.

Tex., Greenville—A. B. Jones will soon let contract for erecting 2 brick business buildings, South Stonewall St.

Tex., San Antonio—J. W. Goodman contemplates erecting 3 stores, Water St.; \$15,000.

Tex., Whitehouse—Hill & Center are erecting brick business building.

Tex., Yorktown—B. A. Goodfriend will soon award contract for store building; 35x120 ft., brick and hollow tile walls, tile floors and plate glass in front, steel ceilings, metal lath and plaster, tar and gravel roof; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio.

Va., Richmond — Biggs Antique Co. has plans by H. Carl Messerschmidt, Richmond, for installation of new front, Franklin St.

Theatres

Fla., Lakeland—E. J. Sparks of Lakeland Amusement Co., Jacksonville, contemplates erecting \$100,000 theater.

N. C., Gastonia—Jas. A. Estridge and J. E. Simpson, owners of Gastonia and Ideal Theaters, and J. E. Ware, Pres. Third Natl. Bank, have purchased 50 ft. on Marietta Ave. as site for \$150,000 theater; construction early in June; seat 1500 people; 2 stores 50 ft. deep in front; 50x140 ft.

N. C., Hickory—John F, Miller has leased Pastime Theater and plans installing new seats, floors and storm doors; decorate walls and ceilings, build fireproof operating room.

Va., Richmond-Mrs. Amanda Thorp has plans by Fred A. Bishop, Petersburg, and will soon open bids for \$75,000 motion picture house, 1414 Hull St., South Richmond; typhoon ventilating system, ornamental plaster interior, Indiana limestone, seat 1000; will be named The Venus. Noted March 27.

Warehouses

Ala., Albertville—Farm Bureau Warehouse Co., J. B. H. Lumpkin, Pres., contemplates erecting unit of warehouse.

Fla., Miami—Benj. I. Powell contemplates erecting 2-story, reinforced concrete and hollow tile, \$10,000 warehouse, S. W. First Court: 40x77 ft.

La., New Orleans—Graebner & Hamilton will soon award contract for \$13,000 brick and concrete warehouse; far and gravel roof,

36x102 ft.; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg., San Antonio.

La., New Orleans—Marks Isaacs Co. contemplates erecting \$250,000 addition to building, Canal St., to be used as warehouse.

Mo., Springfield—Cowell Oil Co. is erecting warehouse and storage tanks, East Phelps Ave.

S. C., Aiken—Perry W. Townsend contemplates erecting warehouse, East Hayne Ave. S. C., Florence—W. J. Wilkins has purchased property, South Irby St., and contemplates erecting warehouse to accommodate 60 to 75 automobiles; 75x300 ft.

Tenn., Mt. Pleasant—Mt. Pleasant Tobacco Warehouse Co. directed Robt. C. Willis, Contr., Columbia, to prepare plans and estimate cost of warehouse to be erected this summer. Noted March 6.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Fla., DeLand—DeLand Post, American Legion, let contract at \$12,862 to E. K. Jones, DeLand, for stucco building, W. New York Ave.; 1-story, 60x89 ft., brick or cement foundation.

Bank and Office

D. C., Washington—National Geographic Society, Gilbert Grosvenor, Pres., 16th and M Sts., N. W., let contract to Skinker & Garrett, 1516 F St., N. W., for \$300,000 building, 3rd and R Sts., N. E.; 3 stories, 80x 220 ft., brick and stone; A. B. Heaton, Archt., 1211 Connecticut Ave., N. W., all Washington; drawing plans.

Fla. Miami—A. C. Converse will erect 3story building. S. E. 1st Ave. and 1st St.; reinforced concrete beams and pilasters, hollow tile curtain walls, front finished in Kaen cement with marble trim; 3 stores on first floor, 10 offices above; E. A. Nolan, Archt.; Donathan Construction Co., Contr., at \$19,416, exclusive of electric work and fixtures, both Miami.

Ga., Atlanta—Fourth National Bank, E. A. Stubbs, Mgr. of Branches, has let contract for West End Branch Bank, Gordon and Lee Sts.; Roberts & Co., Archts.-Constr. Supervisors, Bona Allen Bldg., Atlanta. Noted Jan. 31.

Md., Havre de Grace—Havre de Grace Banking & Trust Co., Judge Lee I. Hecht, Pres., Fidelity Bidg., Baltimore, Md., let contract to C. A. McCommons, Havre de Grace, for \$60,000 two-story stone and steel bank and office building; 40x55 ft., interior tile, metal doors, vaults, concrete floors, ornamental terra cotta, steel sash and trim, wire glass; Robt. L. Harris, Archt., 13 W. Saratoga St., Baltimore. Noted May 1.

toga St., Baltimore. Noted May 1.

Md., Baltimore—Otis Elevator Co.. New
York City (Baltimore Office) has contract
for installation of 5 electric elevators in Calvert Bldg. and 5 in Equitable Bldg., and Heela
Iron Wks., 17 W. Saratoga St., Baltimore for
remodeling elevator enclosures in both 'buildings; total cost about \$250,000; Henry
Adams, Conslt. Engr., 1263-69 Calvert Bldg.
Noted March 6.

Md., Baltimore—Physicians & Surgeons Building, Inc., Dr. Hugh Young, Monument and Broadway, A. C. Harrison, 31 E. North Ave., and others will probably let contract to J. Henry Miller, Inc., Eutaw and Franklin Sts., for \$1.000,000 office building, Cathedral and Richmond Sts., 8 stories, L-shape, 250 office suites, gray brick, Bedford stone and terra cotta trim, Gothic type; Parker, Thomas & Rice, Archts., Union Trust Bldg., all Baltimore; Alfred Frank Olson, 1288 Munsey Bldg., arranging financial details. Noted May 1.

Miss., Canton—Canton Exchange Bank let contract to Atlanta Show Case Co., Atlanta, Ga., for fixtures in \$55,000 two-story stone and concrete bank building; fireproof, 50x100 ft., safety deposit vault; hollow tile, concrete floors, gravel roof; N. W. Overstreet, Archt., Jackson, Miss.; D. D. Thomas & Son, Conts., Memphis, Tenn. Noted May 1.

N. C., Kinston—Otis Elevator Co., New York City (Richmond, Va., Office), has contract at \$4320 for elevator in 6-story bank and office building for Farmers & Merchants Bank; building to have wood and composition floors and built-up tar and gravel roof; Benton & Benton, Archts.; Gaskill Construction Co., Gen. Contr., both Wilson, N. C. Contracts for heating, lighting and plumbing noted May 1.

S. C., Greenville—F. H. & J. G. Cunningham, Archts., are erecting brick office building, Coffee and Spring Sts., by day labor; construction to second floor; steam heating, conduit system electric wiring and plumbing not let. Noted May 1.

S. C., Spartanburg—Otis Elevator Co., New York City, has contract for elevators in \$850,-000 ten-story Montgomery Building; Lockwood, Greene & Co., Archts.-Engrs., 24 Federal St., Boston, Mass., and Spartanburg. Noted May 1, etc.

Tenn., Nashville—Rogers Caldwell, care Caldwell & Co., let contract to Southern Ferro Concrete Co., Atlanta, Ga. for 10-story office building; plans ready in about 30 days; Marr & Holman, Archts., Stahlman Bldg., Nashville. Noted Nov. 8.

Tex., Houston—Carter Investment Co., 1201 Capital Ave., W. T. Carter, Jr., Pres. will erect building.

Va., Del Ray, Alexandria—Bank of Del Ray let contract at \$10,000 to E. E. Fordham for brick bank building, Mt. Vernon and Windsor Aves.; 2 stories, 25x35 ft., cement and wood floors, cement foundation, tin roof, hollow tile, vaults, vault lights, hot water heat; W. T. Deming, Archt., 808 Seventeenth St., Washington, D. C.

Va., Richmond—L. E. English let contract to R. M. Anderson & Co., Richmond, for \$18,-000 insurance office building, North Ave. near Essex St., North Richmond.

Va., Warrenton—Fauquier National Bank will erect building; Stuart H. Edmonds, Archts., Winchester, Va.; W. F. Hanback, Contr., Warrenton.

Churches

Ala., Ensley—First Baptist Church let contract to Holly & Davis, Ensley, for \$100,000 semi-fireproof Sunday school addition; 4

stories, 60x130 ft., hardwood and concrete stories, 60x130 ft., hardwood and concrete floors, concrete foundation, hollow tile, roll-ing partitions, steel sash and trim; P S. Mewhinney, Archt., 1015 Woodward Bldg., Birmingham, Ala. Noted May 1.

D. C., Brightwood-(Station Washington) —Church of The Nativity, Rev. Frank X. Bischoff, Pastor, let contract to Maurice J. Colbert, 621 F St., N. W., Washington, for heating \$200,000 building; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, and Durham, N. C.; C. J. Cassidy, Contr., McLachen Bldg., Washington. Noted April 10.

Ky., Covington - St. Augustine R. C. Church, Rev. W. F. Mathmann, Pastor, 19th and Euclid Aves., let contract to Jos. Wilbers, 610 W. 7th St., for \$25,000 parish house; 21/2 stories and basement, 40x58 ft., brick.

Ky., Frankfort-R. B. Scott has contract for electrical work and Skein & McDaniel Co. for plumbing for South Frankfort Presbyterian Church; heating not let: Geo. Oberworth, Archt.; Goin Bros., contr. at \$15,500, all Frankfort. Noted May 1.

Mo., Aurora-Central M. E. Church will erect addition to building; dining room, kitchen and class-rooms in basement; H. T. Brown, Contr., Aurora.

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Tex., Dallas-Calvary Bantist Church, Rev. W. O. Barnett, Pastor, will erect \$40,000 main auditorium as first unit of \$100,000 structure; 10th St. and Brighton Ave.; C. H. Leinbach, Archt.; F. W. Howard, Contr., both Dallas; upon completion of present unit work will start on 4-story and basement Sunday school building. Noted Feb. 28.

Tex., Kingsville-Methodist Church, Rev. Sloan L. Bachelor, Pastor, is receiving subbids for \$65,000 building; basement under construction; concrete foundation, wood floors, brick and hollow tile walls, 3 stories; Ralph H. Cameron, Archt., City National Bank Bldg., San Antonio, Tex.

Tex., Lubbock-First Presbyterian Church, Rev. Jack M. Lewis, Pastor, let contract to J. B. Maxey for semi-fireproof brick and stone building; 2 stories and basement, about 61x 75-ft., cement and wood floors, tar and gravel roof, reinforced concrete foundation, metal ceilings, rolling partitions; Peters & Haynes, Archts., all Lubbock. Noted Jan. 31.

Va., Charlottesville—Following sub-contracts let for \$150,000 Sunday school addition to First Baptist Church: Brick work. J. F. Boger, Kingsport, Tenn.; ornamental stone, Economy Concrete Co., of Virginia, Richmond; plastering, W. A. Brand; roofing and sheet metal work, Flavin & Watson, both Staunton; electric wiring, Capitol Electric Co.; plumbing, Lacy & Barnett; painting and varnishing, B. T. Marshall, all Charlottesville; structural steel and ornamental iron (erection by Gen. Contrs.), Dietrich Bros., 220 Pleasant St., Baltimore, Md.; excavation, concrete work, rough carpentery and mill work by Charlottesville Lumber Co., Gen. Contrs.; rolling partitions, folding doors and toilet partitions not purchased; Herbert L. Cain, Archt., 201 Grace St. Bank & Trust Bldg., Richmond; all Va. Noted March 6.

Va., Portsmouth-W. W. Breedlove & Co., Norfolk, Va., has contract for heating and E. G. Adams, Portsmouth, for plumbing for \$50,-000 Park View M. E. Church; 2 stories, 78x 65 ft., concrete and oak floors, concrete foundation, slate roof, steel sash and trim; lighting in general contract; windows and seats pending; W. Newton Diehl, Archt., New Monroe Bldg., Norfolk; Calvin Johnson & Son, Contr., Portsmouth. Noted May 1.

W. Va., Huntington - Trinity Episcopal Church let contract at \$100,000 to C. Harrison Smith for non-fireproof building; brick, terra cotta trim, 3 stories, oak and maple floors, concrete foundation, slate roof, hollow

and interior tile, ornamental terra cotta. steel sash and trim; bids desired on plastering, brick work, painting and roofing; lighting and plumbing not let; heating to Bockway Plumbing & Heating Co.; Wm. Francis Diehl, Archt., all Huntington; excavating. May 1.

W. Va., Huntington-Baptist Temple, Rev. V. H. Persons, Pastor, let contract to Thos. F. Beckett, 2142 Ninth Ave., for \$90,000 building, 21st St. and 9th Ave.; 3 stories and basement, 90x132 ft., brick and tile; Levi J. Dean, Archt., 605 Simms-Keller Bldg., both Huntington. Noted Jan. 17.

City and County

Md., Baltimore-Morgue-Board of Awards, Mayor Howard W. Jackson, Pres., let contract at \$67,714 to DeCou & Davis, 6 E. Mulberry St., for fireproof brick morgue, Fleet St. and E. Falls Ave.; 1-story, 60x73x20-ft., concrete, tile and wood floors, concrete foundation, slag roof, hollow and interior tile, metallic ceilings and doors, vaults, steel sash and trim, wire glass.; Geo. R. Callis, Jr., Archt., 18th floor Hearst Tower Bldg., both Baltimore. Noted May 1.

Md., Frostburg-Fire Station-Olen Gerlach has contract at \$25,000 (April 20) for brick. stone and steel fire station on water St.; 3 36.8x69 ft., concrete foundation, metal ceilings and doors, hardwood and concrete floors, rolling partitions, steel sash and trim, composition roof; heating and electrical

Miss., Pascagoula-City Hall-Fire Station-City, J. R. Watts, Mayor, let contract at \$22,-440 to A. Ziegenfelder, Pascagoula, for 2 story brick, concrete, tile and stucco city hall and fire station for Pascagoula Central Fire Co. No. 1; 50x90 ft., maple and concrete floors reinforced concrete foundation, Johns-Manville asbestos shingle roof, vaults, ventilators; heating to Home Plumbing Co., Gulfport, Miss., at \$1793; electric lighting and plumbing in general contract; Owen Construction Co., Inc., Archts., Mobile, Ala. Noted April

W. Va., Wayne-Courthouse Work-King & Petersen Co., Huntington, W. Va., has contract for marble and interior finishing work in Wayne County courthouse; Milburn, Heister & Co., Archts., Union Savings Bank Bldg.. Washington, D. C., and Durham, N. C. Noted Dec. 13.

Dwellings

Ark., Forrest City-J. F. Stout will erect brick, veneer residence; stone trim, Stonekote gables, composition shingle roof; Estes W Mann, Archt., Memphis; C. A. Ahlsedt, Contr.; S. P. McDaniel & Sons, plumbing; both Forrest City; J. N. Gray, Memphis, heating.

Ark., Pine Bluff-Dr. O. T. Blackwell let contract at \$20,000 to J. H. Culpepper, 1712 Beech St., for brick veneer residence; foundation in; 2 stories, 45x59 ft., tile wall, bath floor, promenade and mantles; E. F. Reed, Archt., both Pine Bluff.

D. C., Washington-Mrs. Minna L. Lange let contract to T. T. Taylor Co., District National Bank Bldg., Washington, for residence; Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, and Durham, N. C.

D. C., Washington-Gertrude L. Reed, 1137 New Hampshire Ave., N. W., will erect 20 dwellings; 2 stories, 15x26 ft.; H. W. Febrey, Contr., 732 Seventeenth St., N. W., Washington.

Fla., Fort Myers—C. W. Stribley has completed foundation of \$50,000 Spanish Colonial type residence, McGregor Blvd.; L. S. Young, Contr., Fort Myers.

for electrical work to Southern Electric Co. and plubing to Chas. Miller for \$25,000 Denison tile and reinforced concrete residence and garage, 1410 Brickell Ave.; 2 stories, 52x48 ft. and 22x26 ft., quarter sawed white oak floors, concrete for porch, concrete foundation, tile roof; H. Hastings Mundy, Archt., all Miami. Noted April 17. (See Mchy. Wanted-Hoisting Equipment.)

Fla., Miami-Chas M. Eaton, Spring Lake, N. J., and Miami, will erect Italian type residence, Star Island; old Spanish tile entrance hall, stone floor and cypress beam ceiling in living room, 2 baths, electric refrigerating plant, vapor system of heat, garage, Italian imported roofing tile, cost \$50,000; Robt. L. Weed, Archt.; E. H. Hilton, Contr., both Miami.

La., New Orleans-J. J. Ryan & E. Mc-Donald will erect \$12,650 building, Calhoun and Benjamin Sts.; New Orleans Construction Co., Contr., 540 Camp St., New Orleans.

La., New Orleans - Laz Aronson, 2814 Octavia St., will erect 2 bungalows, Calhoun, Barrett and Peters Ave.; total cost \$16,000, owner builds.

La., New Orleans-John J. Palmisano, 1928 Pine St. will erect 5 bungalows, State Street Drive; total cost \$30,000; owner builds and

La., New Orleans-S. Schurmann, 2701 Carondelet St., will erect 3 double cottages, 2509-11 Palmer Ave; slate roofs; total cost \$11,400; owner builds.

La., New Orleans-Chas. Wirth, 2221 S. Carrollton Ave., will erect \$12,250 raised bungalow, West End Bldg., Smith and Lane St.; Edw. F. Baehr, Contr., 636 Webster St., New Orleans.

Md., Baltimore—Marcy B. Phillips, 3909 Brookline Ave., will erect 3 two-story frame dwellings and garages, 3801-05 Montgomery Ave.; 28x43 ft. and 20x20 ft.; slate roofs, steam heat; total cost \$20,000; Geo. Wessel, Archt., 3001 Lyttleton Rd., Baltimore; owner builds. Noted April 24.

Md., Baltimore-Gallagher Realty Co. will erect 4 two-story brick dwellings, 509-15 Sheridan Ave.; 22x32 ft., slag roofs, steam heat; total cost \$16,000; Callis & Callis, Archts., 2055 Kennedy Ave., Baltimore; owner builds. Noted May 1.

Md., Westminster-Dr. H. L. Elderdice, Pres. Western Maryland Theological Seminary, will erect \$20,000 residence; 2½ stories, brick; C. M. Anderson, Archt., 9 E. Pleasant St., Baltimore, Md.; Chas. B. Hunter, Contr., Westminster. Noted incorrectly April 10 under Md., Hagerstown.

Mo., Clayton (Ind. Branch St. Louis)-Tegethoff & Valterott will erect 14 brick dwellings, Hutchinson Sub-Division; 24x30 ft. each; total cost \$45,640; U. Smith, Archt. Contr., 6511 Ridge Ave., Clayton.

Mo., St. Louis-Douglas Smiley is erecting tile and stucco residence, North Drive, Wydown Terrace; greeen and purple slate roof, tile reception hall; Nolte & Naumann, Archts.; Woermann Construction Co., Contr., both St.

Mo. St. Louis-W. J. Carmichael, 7272 Forsyth St., will erect \$12,000 brick residence 7130 Lindel Blvd.; 2-stories, 28x46 ft., asbestos shingle roof, hot water heat; Klingenschmidt & Rice, Archts., 811 Olive St.; Wm. Brenecke, Contr., 6426 San Bonita St., both St. Louis.

Mo., St. Louis-L. Gesecker, 5038 Kingshighway, will erect brick residence, 5036 Maffitt St.; 2 stories, 23x48 ft., slate roof, hot air heat, cost about \$10,000; G. Becker, Archt., Ferguson, Mo.; A. H. Wieldt, Contr., 6021 Etzel St., St. Louis.

Mo., University City (Station St. Louis)-Fla., Miami-W. H. D. Stewart let contract Geo. Will, 4427A Clarence St., will erect

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\$10,000 brick bungalow, 7375 Stratford Ave.; 1½ stories, 37x28 ft., tile roof, hot water heat; Noite & Naumann, Archts., Fullerton Bldg.; F. F. Meckfessel Construction Co., Contr., both St. Louis.

N. C., Rocky Mount—E. I. Flemming let contract at \$15,300 to F. S. Lane, Nashville, N. C., for frame and brick veneer residence; 2 stories, 40x38 ft., oak and pine floors, concrete foundation, composition roof; H. C. Dixion, train vapor heat; plumbing to Johnson The Plumber; electrical work not let; G. E. Hutchings, Archt., all Rocky Mount.

Tenn., Knoxville—J. G. Evans let contract at \$9349 to Weaver & McGill for \$11,000 residence, Clinch Ave. near 8th St.; brick, 2 stories, oak floors, brick foundation, asphalt shingle roof; R. F. Graf & Sons, Archts., all Knoxville.

Tex., Dallas—Dines Building Co. will erect \$32,500 English type dwelling in Country Club Estates; dark red brick, green tile roof, 2 tile baths; work started.

Tex., Dallas—A. P. Minchew is erecting \$20,000 brick veneer country residence, White Rock Lake, Shore Acres; slate roof, 2 baths, shower, billiard room, 4-car garage with washroom and light plant room; W. A. Cooke, Archt., Dallas.

Tex., Houston—Russell Brown Co. is erecting \$19,000 dwelling, 5309 Mandell St.; 11 rooms, brick yeneer.

Tex., Houston—G. C. Curtis is erecting 2story brick veneer dwelling, 614 Peden St.; cost about \$10.000.

Tex., Houston—Edwards & Springfield are erecting \$12,000 dwelling, 1702 Richmond St.; 2 stories. 8 rooms.

Tex., Houston—J. A. Harris will erect 5 brick veneer dwellings, 1204-15 W. Pierce St.; 5 rooms: total cost \$22.500.

Tex., Houston—A. S. Henley, 1105 Truxillo Ave., let contract April 20 at \$15,128 to Irving Shapley, care Burton Lumber Co., for brick veneer residence; frame up; 2 stories, 30x50 ft., hardwood floors, Carey shingle roof; heating and plumbing to Barber Plumbing Co.; L. A. Glover, Archt., 622 Binz Bldg., all Houston. Noted May 1.

Tex., San Antonio—Julius Barclay let contract at \$10,285 to Bock Construction Co. for residence, Hollywood and Belknap Sts.; reinforced concrete foundation, metal lath, plaster and frame; plumbing and heating, T. W. Langan, \$1536; wiring, Martin Wright, \$185; Harvey P. Smith, Archt., National Bank of Commerce Bldg., all San Antonio. Noted April 10.

Tex., San Antonio—Geo. M. Fox let contract to Roy Heath for \$10,000 frame and stucco residence, Woodlawn Hills; John M. Marriott, Archt., both San Antonio.

Tex., Waxahachie—G. W. Callens has completed concrete foundation of residence, W. Marvin St.; brick veneer, 7 rooms, builtlin cabinets; Krone & Brasher, Contrs., Waxahachie.

Hospitals, Sanitariums, Etc.

N. C., Durham—Dermott Heating Co., Durham, has contract for heating city hospital; plans and specifications by Milburn, Heister & Co., Archts., Union Savings Bank Bldg., Washington, D. C. and Durham.

Tex., Abilene—State Board of Control, S. B. Cowell, Pres., Austin, Tex., let contract at \$10,000 to H. M. Seley, Abilene, for repairing 2 buildings at State Epileptic Colony, Dr. T. B. Bass, Supt., and to Otis Elevator Co., New York City, for installation of 2 elevators, cost \$6620; David S. Castle Co., Archts., Abilene and Dallas, Tex. Noted Nov. 15.

Tex., Rusk-State Board of Control, S. B. Cowell, Chmn., Austin, Tex., let contract at

\$44,602 to E. B. Snelling, Austin, for remodeling barn for ward at East Texas Hospital for Insane; S. W. Ray, Archt., Jacksonville, Tex. Noted April 24.

Hotels and Apartments

Fla., Jacksonville—C. Roy Kindt, 10136 S. Hoyne Ave., heading Chicago syndicate, has purchased 1000-acre tract 5 miles from Jacksonville, on St. Johns River, for extensive recreational and residential development; plans include 2 golf courses, \$1,000,000 tourist hotel, casino, polo grounds, extensive bulk heading and landscaping; Loss & Co., Contrs., Chicago, with offices in Jacksonville; Zimmerman, Saxe & Zimmerman, Archts., 64 E. Van Buren St., Chicago. Noted April 17.

Fla., Miami—Wolfert Realty Co. awarded contract to M. D. Sammons, Miami, for two 2-story, \$25,000, cement block, 4-suite apartments, S. W. Tenth Ave. and Fourth St.; J. P. Turner, Archt., Miami.

Fla., St. Augustine—Chas. E. Young, owner and Mgr. Hotel Munson, awarded contract to W. T. Hadlow, Baldwin Bldg., Jacksonville, for 3-story, \$25,000, brick and cement addition to hotel; concrete foundation, tile and tin roof, hardwood floors; Fred A. Hendrick, Archt., St. Augustine. Noted April 10.

Fla., Winter Haven—G. A. Cole has awarded contract for 2-story stucco rooming house, East Lake Ave.; 36x82 ft., 18 rooms, each with bath.

Ga., Athens—W. S. Holman will remodel and convert 9-story office building into hotel, Clayton and Lumpkin Sts.; \$70,000, 60x105 ft., concrete and tile flooring, composition roof, hollow tile, interior tile; Willis Irvin, Archt., Augusta; construction by day labor supervised by J. W. Barnett, Athens. See Machinery Wanted — Building Material. Noted March 6.

Ga., Macon—W. J. and O. J. Massee, Jr., awarded contract to Southern Ferro Concrete Co., Atlanta, for 8-story, \$500,000, fireproof apartment building, College St., between Georgia Ave. and Jones St.; 108.6x450 ft., reinforced concrete frame, terra cotta floor slab, face brick made by Bibb Brick Co., Macon; mechanical refrigeration, laundry, garages, lobby, office, reception rooms and restaurant on first floor; 2 electric elevators, facade of brick on granite base, with limestone trimmings, Georgian style; Hentz, Reed & Adler, Archts., Atlanta. Noted Jan. 24.

Ga., Atlanta—Granada Corp. awarded contract to R. L. Langston, Atlanta, for \$400,000 65-apartment building, West Peachtree and Sixteenth Sts.; Hairs & Constantine, Archts., Atlanta.

Md., Baltimore—Stuart Olivier, Standard Oil Bldg. awarded contract to L. L. Chambers, 36th and Roland Ave., Baltimore, for \$125,000 3-story, stucco, apartment house, Charles St. Ave. and Wyndhurst St.; plans by R. E. Lee Taylor of Parker, Thomas & Rice, Archts., Union Trust Bldg., Baltimore. Noted Feb. 21.

Mo., St. Louis—H. W. Simion will erect \$10,000, 2-story brick tenement, 4242 Kossuth St.; 33x56 ft., composition roof, hot air heat; H. C. Simion, Archt. and Builder, both 4569 Athlone St.

Mo., St. Louis—H. Folkers, 41000 Hartford St., will erect two 2-story tenements, 603-7 Bates St.; \$20,000, 35x64 ft., composition shingle roof, hot air heat. Construction by owner.

Mo., St. Louis—Linworth Investment Co., 4368 Lindell St., will erect \$200,000, 3-story, brick tenement, 4364-8 Lindell St.; 40x178 ft., tar and gravel roof, steam heat; Boaz & Kiel Construction Co., Contr., 705 Chouteau Trust, St. Louis.

Mo., St. Louis—C. Jacobs, 5090 Enright St. will erect \$12,000, 2-story tenement, 4201-3 Walsh St.; brick, 46x59 ft., composition roof, hot air heat; J. M. Leopold, Contr. and Archt., 3728 Hydraulic St.

Mo., St. Louis—W. H. Sims, Usona Hotel, will erect two 2-story, \$18,000 tenements, 3505 Belt and 5509 Palm Sts.; each 30x56 ft., tile roof, hot air heat. Owner is Archt. and Builder.

Mo., St. Louis—A. B. Westermeyer, 5211 Devonshire St., will erect two 3-story, \$20,-000 tenements 3133-37 Minnesota St.; 32x45 ft. each, composit on roof, hot air heat. Owner is archt. and builder.

Mo., University City (Sta. St. Louis)— Jno. J. O'Donnell, 5596 Etzel St.. will erect \$10,000, 2-story brick flat, 1063 Ferguson Ave.; Edw. A. Noser, Contr., St. Johns Station, Mo.; Oliver J. Popp, Archt., Odd Fellows Bldg.; 27x47 ft., asphalt shingle roof, hot water heat.

N. C., Wilson—Jesse B. Williams awarded contract to Jones Bros., Wilson, at \$71,885, for apartment building, North Greensboro St.

Tenn., Nashville—Paul DeWitt is erecting 3-story, brick and reinforced concrete, \$35,000 apartment building, 1606 Eighteenth Ave.; six 6-room suites, stone laid in cement foundations, concrete and hardwood floors, shingle roof; all contracts let; Gawons & Hailey, plumbing and heating; Herbrick and Lawrence, electric wiring; C. K. Calley & Co., Archts.; all Nashville. Noted May 1.

Tenn., Memphis—Dr. E. E. Simpson will erect \$25,000, red brick with stone trim, brick veneer, 4-suite apartment building, Avalon and Eastmoreland Place; J. B. Moody, Contr., Memphis.

Tex., Houston—M. C. Mills is erecting \$11,000 brick veneer apartment building, 1535 Westheimer St.

Miscellaneous

Fla., Tampa—Cafeteria—John M. Nelson awarded contract to Logan Bros., Tampa, for 2-story, \$35,000 brick cafeteria; 40x175 ft., cement foundations, wood and tile flooring, composition gravel and tar roof, interior tile, metal ceilings, rolling partitions, ventilators; Miller Lemfesty, heating; Hale & Burke and Monroe Electric Co., electric wiring and equipment; Jaughn & Chaires, plumbing; Otis Elevator Co., electric elevator; S. B. Bigers, Archt.; all Tampa. Noted May 1.

Md., Baltimore—Conservatory of Music—Peabody Conservatory of Music Board of Trustees, Gen. Lawrason Riggs, Pres., Equitable Bldg., awarded contract to Consolidated Engineering Co., Calvert Bldg., Baltimore, for remodeling; contract includes heating, wiring and plumbing; changes in 2 upper stories, elimination of art gallery, construction of concert hall to accommodate 600 persons, room for chorus class, additional classrooms, contemplate new building for preparatory department; Parker, Thomas & Rice, Archts., Union Trust Bldg., Baltimore, Noted May 1.

Mo., St. Louis—Town Club Investment Co., Century Bldg. will erect \$185,000, 7-story club building; 45x106 ft., concrete composition roof; Humes-Deal Co., Contrs., Syndicate Trust Bldg.; Maaran, Russell & Crowell, Archts., Chemical Bldg., both St. Louis, Noted Sept. 27.

Mo., Springfield—Home—Board of Directors of Mary E. Wilson Home, Ed. V. Williams, Pres., awarded contract to Pauley Construction Co., Springfield, for \$40,000 addition and remodeling: Earl Hawkins & Co., Archts., Springfield. Noted Jan. 31.

N. C., Spencer—Dance Hall and Pavilion— J. D. Haden has awarded contract for erecting dance hall and pavilion, River Side Park. 0

Okla., Okmulgee—Amusement Park—Chas. E. Douglass awarded contract to Dougherty-Gibson Construction Co., Okmulgee, for boathouse, 40x30 ft., and dance pavillon, 70x100 ft.; will soon award contract for natatorium 100x200 ft. and refreshment stand; Smith & Senter, Arcts., Okmulgee. Noted April 3.

Okla., Tulsa—Funeral Home—Stanley & McCune, 620 S. Boulder St., awarded contract to E. Goodall, Tulsa, for \$70,000 funeral home; following sub-contracts awarded: millwork, Huttig Millwork Co., Kansas City, Mo.; plumbing and heating, Watt Plumbing Co.; painting, Mr. Breno; wiring, Dodge Electric Co.; stone, Bedford Barthage Stone Co.; brick, Tulsa Vitrified Brick Co.; steel, Patterson Steel Co.; face brick, Acme Brick Co.; John W. Robb, Archt., 1112 S. Boston St.; all Tulsa. Noted April 10.

Tex., Brenham—Clubhouse—Brenham Country Club, C. L. Wilkins, Pres., awa-ded contract to Henry Wood and J. R. Nix for \$15,000 clubhouse. Noted Dec. 27.

W. Va., Morgantown—Monongalia County Country Club awarded contract to Baker & McCombs, Morgantown, for \$50,000, 3-story clubhouse. Noted April 24.

Schools

Ark., Fayetteville—University of Arkansas has plans in progress by Prof. B. N. Wilson, Fayetteville, for \$35,000, 1-story, concrete, steel, tile and vitrified brick gymnasium; 70x 100 ft., concrete foundations, frame and asphalt roof, hollow tile, wire glass, steel sash and trim; construction by Dept. of Buildings and Grounds. Noted May 1.

Fla., Miami—Dade County Board of Education awarded contract to St. John Construction Co. at \$38,360 for 10-room building, N. W. 22nd Ave., and to W. T. McRae at \$42,000 for addition to North Side; J. H. Sculthorpe, Archt. for former and Pfeiffer & O'Reilly, Archts. for latter; all Miami. Noted April 24.

Fla., Pablo Beach—Duval County Board of Public Instruction, F. A. Hathaway, Supt., Room 203 Court House, Jacksonville, awarded contract to Forster & Christopher, 1940 Pearl St., Jacksonville, at \$34,700, for 2-story, stucco with stone trim building; 153x50 ft., wood and concrete flooring, brick foundations, tile roof, hollow tile, interior tile, rolling partitions; Mark & Sheftall, Archts.; Gilmour & Empie, 10 W. Monroe St., plumbing and heating; both Jacksonville; wiring in general contract. Noted April 17.

Fla., West Palm Beach—Rt. Rev. P. J. Barrie, St. Augustine, and Rev. Mother Angelica, St. Ann's Parochial School, awarded contract to Reynolds & Shull, Guarantee Bldg., West Palm Beach, for \$120,000 reinforced concrete, structural steel and interlocking tile college and dormitory, Seventh Ave., for Dominican Sisters; Spanish-Romanesque type, tile roof, cork floors; M. I. Manly, Archt., Miami. Noted April 10.

La., Monterey—Concordia School Board awarded contract to Lee Ellis, at \$33,400, for 2-story brick school; wood flooring, reinforced concrete foundation, asphalt shingle roof, metal ceilings; J. W. Smith, Archt., Monroe. Noted May 1.

Md., Crumpton—School Commrs. of Queen Anne County, care J. M. Bennett, Supt., Centerville, awarded contract to W. T. Pippin, Chestertown, at \$11,075, for 1-story frame, 3-room building, W. D. Brinckloe, Archt., Easton, Md. Noted May 1.

Md., Cumberland—Allegheny County Board of Education, W. B. Sperry, Pres. awarded contract to Jas. C. Powell, 19 S. Liberty St., Cumberland, at \$49,880, for concrete, brick, steel, wood, 2-story school building; 55.4x 77.5 ft., slag roof, concrete foundation, e. g.

yellow pine and concrete floors, hollow tile, interior tile, metal ceilings, ventilators; Bartley-O'Neill Co., steam heat and plumbing; Jno. H. Reed, electric wiring; Wright Butler, Archt., S. Centre St.; all Cumberland.

Mo., Cameron—Board of Education, J. Harry Hulszier, Sec., awarded contract to Oklahoma City Building Co., Slater, Mo., at \$84,797, for 2-story, brick and reinforced concrete grade school; 122x137 ft., wood and concrete flooring, asbestos over wood deck roof, cement foundation, hollow tile, interior tile, rolling partitions, steel sash and trim; J. A. Kendall, vacuum vapor system heating and plumbing; Roy Chivens, electric wiring; C. F. McClean, Archt., all Cameron. Noted April 17.

Mo., Kansas City—Board of Education, J. Jackson, Sec., awarded contract to J. E. Morley, 445 Sheidley Bldg., Kansas City, for \$300,000, 3-story and basement, 106x30 ft., brick and stone Milton Moore grade addition; C. A. Smith, Archt., Finance Bldg., Kansas City.

Mo., Odessa—Board of Education, P. G. Buckles, Supt., awarded contract to Ed. Page, Marshall, Mo., at \$47,000, for 2-story, \$60,000, brick and stone high and grade school addition; 90x65 ft., concrete foundations, wood flooring, gravel roof; Odessa Electric Supply Co., Odessa, electric lighting; F. J. Genser & Sons, Higginsville, heating and plumbing; H. D. Pampel, 702 Finance Bldg., Kansas City. Noted May 1.

Mo., Richland—School Board, J. H. Trippe, Supt., awarded contract to J. W. Trau, Richland, for \$33,000, 2-story, brick school building; 77x118 ft., reinforced concrete foundation, hardwood flooring, steam heat; contr. also archt. Noted May 1.

N. C., Asheville—Buncombe County Board of Education awarded contract to Palmer-Spivey Construction Co., Charlotte, N. C., for brick school building, Venable Special School Tax District, Lower Hominy Township; T. E. Davis, Archt., 20½ Spruce St., Asheville. N. C. Noted Feb. 28.

N. C., Clyde—Clyde Public School Commrs. awarded contract to W. J. Ganes, Tryon, at \$21,900 for 2-story brick addition to school building; concrete foundation, gum floors, asbestos roof; Frank B. Simpson; Archt., Raleigh. Noted April 3.

N. C., Hickory—School Board, R. W. Carver, Supt., awarded contract to Abe Brill Electric Co., Spartanburg, S. C., at \$7260.15 for wiring and electrical work in high school under construction. Noted Feb. 7.

N. C., Marston—Richmond County Board of Education, L. J. Bell, Supt., Rockingham, awarded contract to M. S. Weaver, Aberdeen, for \$35,000 1-story, brick and tile school ouilding; 10 rooms and auditorium, hardwood and concrete flooring, composition roof, brick foundations, hollow tile, ventilators; Dermott Heating Co., Raleigh, vapor system, American Radiator Co. and Ideal boiler; Linthicum & Linthicum, Archts., Raleigh. Noted March 27.

N. C., Maxton—Board of Education, Mc-Kay McKinnon, Sec., awarded contract to W. P. Tennent, Florence, S. C., at \$67,800, for 2-story and basement, brick and frame, 55x190 ft. school building; maple flooring, Barber asphalt roof, concrete foundations; R. W. Dixon, heating, at \$4700; A. B. Blake, electric wiring at \$1080; H. E. Longley, plumbling at \$3225; Leslie N. Boney, Archt.; all Wilmington, N. C. Noted April 17.

Okla., Oklahoma City—Board of Education awarded contract to Dunning Construction Co., Oklahoma City, for \$400,000, 3-stery and part basement Roosevelt Junior High School; 233x217 ft.; Layton, Smith & Forsythe, Archts., Oklahoma City.

Okla., Bristow—Board of Education, Van D. Staut, Sec., awarded contract to Manhattan Construction Co., Muskogee, Okla., at \$105,000, for 3-story, brick and concrete high school; tar and gravel roof, maple and concrete flooring, concrete fundations, ventilators, hollow tile; Grinnell Heating Co., Kansas City, Mo., plumbing and heating; C. Lee Curan, Archt., Bristow. Noted May 1.

Okla., Sparks—Board of Education, S. W. Ivens, Clk., has plans by and awarded contract to A. F. Stewart Construction Co., Oklahoma City, Okla., at \$16,000, for school building; steel sash and trim, concrete floors. Noted April 17.

S. C., Gaffney—Building Comm. of Limestone College, W. C. Hamrick, Chmn., awarded contract to J. C. Heslep, Columbia, for erecting Hamrick Hall of Science, Carroll School of Fine Arts and president's home; \$115,000; Wilson, Berryman & Kennedy, Archts., Columbia, S. C., and Wilson and Gastonia, N. C.; E. S. Draper, Landscape Archt., Charlotte, N. C. Noted April 24—contract awarded to Palmer-Spivey Construction Co., Augusta, Ga., but bid was with-

S. C., Greenville—Greenville Woman's College, David M. Ramsay, Pres., awarded contract to Morris-McKoy Building Co., Greenville, for renovating and modernizing library; 8:10 1002

drawn.

Tenn., Memphis—Board of Education, Lyceum Theater Bldg., awarded contract to B. E. Buffaloe, Memphis, for North Side High School, Manassas St. and Saffarans Ave.; J. A. Fowler, electric wiring; Pfeil & Awsumb, Archts., Union & Planters Bank Bldg.; both Memphis. Noted April 17.

Awsumb, Archts., Chion & Frances.

Bldg.; both Memphis. Noted April 17.

Tex., Austin—Wesley Bible Chair Assn.

Rev. D. E. Hawk, Chmn. Building Board, awarded contract to Will Biggs, Austin, at cost plus, for 2-story, \$34,000 building; concrete frame, limestone facing, brick backing, maple flooring, tile roof on steel trusses; plumbing, wiring and heating will be let later; Giesecke & Harris, Archts., 520 Littlefield Bldg., Austin.

Tex., Kirkland—School Board, P. J. Harp, Pres., awarded contract to H. M. Seby, Abilene, at \$25,884, for 2-story, brick, 10 room and auditorium school building; edge grain flooring, tar and gravel roof, concrete foundation, metal ceilings, ventilators, steel sash; Chas. Zolninger, Frederick, Okla., steam heat at \$3800; Voelckes & Dixon Archts., Wichita Falls, Tex. Noted Mar. 20 Tex., Tyler—School Board awarded con-

ract to J. E. Johnson Construction Co., Waco, for \$51,000 Gary ward building; DeWitt & Lemmon, Dallas, and Wm. B. Ittner, St. Louis, Mo., Archts. Noted February 7.

Stores

Fla., St. Petersburg—A. L. Gragory will erect 3-story, \$30,000, brick and tile, stucco stores and rooming house; 44x158 ft., hollow tile, metal cellings, reinforced concrete foundations, wood, cement and concrete flooring, built-up roof; Raymond Howard, electric wiring and fixtures; St. Petersburg Plumbing Co., plumbing; D. Hodges, brick and tile; H. E. Wendell, Archt., all St. Petersburg. Ga., Atlanta—W. T. Grant & Co., 28 W.

Ga., Atlanta—W. T. Grant & Co., 28 W. 23rd St., New York City, awarded contract to Morris-McKoy Building Co., Greenville, S. C., for remodeling 5-story and basement, brick, steel and concrete building, Whitehall St.; 60x230 ft., with L 70x150 ft., tar and gravel roof, wood, concrete and linoleum floors, concrete foundations, hollow tile, metal ceilings, interior tile, metal doors, ventilators; A. F. Evans, Archt., 28 W. 23rd St., New York City. Noted May 1.

Ga., LaGrange—Callaway Department Store has signed lease with McLellan Stores Co.

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providing for erecting building, Main St.; LaGrange Lumber & Supply Co., Contrs., LaGrange,

La., Haynesville—Mrs. R. Namie awarded contract to J. M. Brown, Shreveport, for 1-story brick store; 30x110 ft.

La., New Orleans—Miller Brothers awarded contract to A. Garrett, New Orleans, at \$10,-100, for alterations to 909 Canal St.; Weiss & Dreyfous, Archts., Maison Blanche Bldg., New Orleans. Noted April 24.

Miss., Columbia—A. W. Morman awarded contract to H. Crosby, Lumberport, for 2story, concrete, 30x40 ft. restaurant and residence.

Miss., Greenwood—W. R. Bond awarded contract to W. S. Howell, for 2-story brick building; 60x90 ft.; F. R. McGoey, Contr., Greenwood. Noted April 24.

Mo., St. Louis—B. Nugent & Bro. Dry Goods Co., F. A. Cramer, Pres. awarded contract to Wimmer Contracting Co., 916 Victoria Bldg., St. Louis, for 5-story, \$1,200,000, reinforced concrete addition to building at Washington and Broadway; 175x175 ft., concrete flooring, hollow tile, metal doors mail chutes, ornamenati terra cotta; Muran, Russell & Crowell, Archts., Chemical Bldg., St. Louis. Noted April 24.

N. C., Kinston—A. J. Sutton & Son awarded contract to F. A. Mitchell, Kinston, for \$15,000, 1-story brick store building; 50x 110 ft., concrete foundation, Barrett roof, steel sash and trim, wire glass. Noted May 1.

Tenn., Chattanooga—J. A. Sloan Co. will erect 2-story, 40x80 ft. annex; mat brick front with plate glass on lower floor, second story front and side Fenestra glass; ventilator frames, ground floor concrete, hardwood above; T. P. Scott, Wichester, will superintend construction.

Tex., Corsicana—J. T. Hickey House, Beator St., occupied by Womack Bros. is being extended 24x58 ft.; J. E. Metealf, Contr., Corsicana.

Tex., Dallas—T. L. Benning, 1000 Ann Ave., awarded contract to A. S. Childres, 115 Field St., Dallas, at \$25,000 for 7-story, brick store and residence; tar and gravel roof, 50x100 ft., tile, concrete and oak flooring, concrete foundation, interior tile, metal ceilings, metal doors, steel sash and trim; heating and plumbing by owner; Eunison Electric Co., 314 N. Horwood St., electric wiring; W. E. Childres, concrete; Chas. Henson, brick; Mosher Mfg. Co., steel; E. C. Martin, Archt., all Dallas.

Tex., Orange—Hunter Huddle and E. Ray Thompson, proprs. of Orange Drug Co., have leased half of Stark Building, Fifth and Main Sts., and awarded contract to T. A. Howell, Orange, to remodel.

Tex., Seymour—O. D. Goosetree and the Hayley estate awarded contract for erecting 2 brick business buildings, LeLain St.

Tex., Vernon—C. T. Smith awarded contract to O. A. Swinburn, Vernon, for \$32,000 store and office building, Main and Texas Sts.: 110x30 ft.

W. Va., Bluefield—Geo. P. Stovall awarded contract to C. W. Hancock & Sons, Bluefield, for 3-story, \$60,000, brick walls and wood joist building. Bluefield Ave. and Chestnut St.; 162x44 ft., stores, apartments and garage; Barber roof, concrete foundations, hollow tile, metal ceilings, hardwood and concrete floors; W. A. Bodell, plumbing and heating; Burgus Electric Co., electric wiring; Mahood & Van Dusen, Archts., all Bluefield. Noted May 1.

W. Va., Cooper—Mill Creek Coal & Coke Co. awarded contract to Mr. Kisler, taxewell, for brick store and office building.

Theatres

Fla., Bradentown — J. K. Singletary awarded contract to Ray A. Parker, Bradentown, at \$8500 for wiring \$70,000 theater, Pine St. Noted Apr.l 3.

Warehouses

Fla., Jacksonville—Rosser & Fitch awarded contract to Geo. W. Hessler, Jacksonville, for \$20,000, brick and cement warehouse; 92x125 ft,

Fla., Jacksonville—Kelly Furniture Co. has purchased site between Main and Hubbard Sts. and awarded contract to R. J. Gillespie Jacksonville, for \$35,000, 1-story, hollow tile warehouse.

La., New Orleans—American Creosoting Works awarded contract to C. N. Bott, Audubon Bldg., New Orleans, to creet 2story, \$17,000, brick warehouse, Plum, Dublin and Green Sts.; Armstrong & Koch, Archts., Maison Blanche Bldg., New Orleans. Noted May 1.

Md., Baltimore — Canton Co., Walter B. Brooks, Pres., 24 Commerce St., awarded contract to Sanford & Brooks Co., Commerce and Water Sts., Baltimore, for \$100,000 addition to warehouse, Twelfth Ave.; 80x200 ft.

Mo., St. Louis—Central Holdings Co., 380 N. 6th St. will erect 2-story, \$12,000 warehouse, 806 N. 7th St. 37x96 ft., tar and gravel roof; R. B. Nasher, Builder, 1744 N. Euclid St.; L. Abrams, Archt., Chemical Bldg.; both St. Louis.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Automatic Feed Pump and Receiver.— Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until May 12 to furnish one automatic feed pump and receiver; delivery Marine Barracks, Quantico, Va. Sch. 501.

Automobile Repair Shop Equipment.— Suburban Auto Repair Shop, Kirkwood, Mo.—To purchase power grinder, hoist, wrecking and towing car.

Basket Machinery.—W. B. Whattey, Opelika, Ala.—Data and prices on machinery to manufacture baskets especially for peaches, and crates for eggs.

Belting.—Port Commrs., New Orleans, La.—Bids until May 8 to furnish 1255 ft. of 36-in, rubber covered fabric conveyor belting for coal handling plant,

Block (Wood Paving).—W. D. Nevas, City Engr., Greenville, S. C.—Data and prices on wood block for street paving.

Boiler.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until May 27 to furnish and install one new horizontal smokeless fire-box heating boiler, arranged for portable setting, etc. at U. S. Post Office, Fayetteville, N. C.

Boxes (Wooden).—Easy-Go-Lax Relief Co., 101 S. Gay St., Knoxville, Tenn.—To correspond with manufacturers of wooden boxes.

Bridges.—State Highway Dept. Jefferson City, Mo., will build 12 bridges. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Williamson County, Georgetown, Tex.—Details under Construction News— Bridges, Culverts, Viaducts.

Bridge.—Screven County Commrs., Sylvania, Ga. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—Donley County, Clarendon, Tex. Details under Construction News—Bridges, Culverts, Viaducts.

Bridge.—State Highway Comn., Raleigh, N. C.—Details under Construction News— Bridges, Culverts, Viaducts.

Broom Making Machinery.—Ewing Wilder, Middlesborough, Ky.—Data and prices on machinery for making brooms.

Brushes.-See Paint and Brushes.

Building Material—Willis Irvin, Augusta, Ga., Archt. for converting 9-story office building at Athens into hotel for W. S. Holman, desires prices on gypsum blocks or 3-inch tile (partitions), tile, terrazzo, cement, lime, plaster, marble work, ventilators, screens, baggage lifts, metal laths, millwork, paint, wallpaper, metal marquise.

Cardboard Easels. — Easy-Go-Lax Relief Co., 101 S. Gay St., Knoxville, Tenn.—To correspond with manufacturers of cardboard easels.

Cars (Dump).—D. C. Elphinstone (Mchy. Dealers), 408 Continental Bldg., Baltimore, Md.—Fifteen 16-yd. and ten 12-yd. air dump cars; all standard gauge; also twenty 2-way, 4-yd. dump cars, 36-in. gauge.

Cement (Portland).—M. S. Hodges, City Atty., Franklin, W. Va.—To correspond with manufacturers of Portland cement.

Coal Handling Equipment.—See Conveying (Coal) Machinery.

Concrete (Building) Block Machinery.— English Mica Co., Spruce Pine, N. C.—Data on machinery for making concrete building blocks; correspond with manufacturers

Conveying (Coal) Machinery.—Central Pocahontas Coal Co., Norfolk, Va.—To purchase crane or derrick with bucket for unloading coal from ships to be operated from dock; also loading gear to be put on large lighter to be used in putting coal into ships bunkers in the stream; prefer second-hand equipment.

Corrugated and Plain Galvanized Iron.— See Iron and Steel.

Crane.—See Conveying (Coal) Machinery.
Crates (Egg) Machinery.—See Basket
Machinery.

Creosoting Machinery.—E. D. Smith, Sumter, S. C.—Data on machines used in creosoting operations; name and address of manufacturers.

Curbs, etc.—City of Little Rock, Ark. Details under Construction News—Road and Street Construction.

Cylinder Grinder.—See Automobile Repair Shop Equipment.

Derrick.—See Conveying (Coal) Machinery.

Derrick (Lumber)—Penrod & Jurden Co.,
Memphis, Tenn.—To purchase lumber der-

rick.

Dredging.—Louisana Highway Comsn., Reymond Bldg., Baton Rouge, La.—Bids until May 27 to dredge along 8.59 mi. of Chef Menteur-Rigoless Highway, Orleans Parish, Sec. B; work consists of dredging canal along west side of highway and using suitable material to widen roadway embankment; J. M. Fourmy, State Highway Engr.

Dredging.—U. S. Engineer Office, Jacksonville, Fla.—Bids until May 17 for dredging in St. Johns river, Fla., and depositing dredged material in the foundation of Ward's Bank training wall. Fire-fighting Equipment.—City of Shreveport, La. Details under Construction News —Miscellaneous Enterprises.

Engine.—H. Eberman Ice Plant, Morgantown, Ky.—Two 25 h.p. Fairbanks-Morse electric light type fuel oil engine; second-hand.

Engine.—Penrod & Jurden Co., Memphis, Tenn.—To purchase 25 h.p. engine.

Fabricated Steel, etc.—Robert Ranson, Wellington Hotel, Miami, Fla.—Prices on fabricated steel, plates and forms for building steel barges of special design.

Floor Scraping Machine.—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until May 10 to furnish one electrically operated floor scraping machine; delivery Quantico, Va., Sch. 496.

Garage Equipment. — Lewis Auto Sales, 1558 Washington St., Charleston, W. Va.—Prices on all shop equipment for Lincoln and Ford service station.

Garage Equipment.—O. R. Albright, Pres. Albright Motor Co., Inc., corner 3rd St. and 3rd Ave., St. Petersburg, Fla.—Prices on garage equipment.

Glass (Red).—Nute, McGehee, Geary Co., Inc., Chambersburg, Pa.—Data on red glass, ½-in, thick and 3-in, diam.

Grab Bucket.—See Conveying (Coal) Machinery.

Gravel.—Louisiana Highway Comn., Reymond Bldg. Baton Rouge La.—Bids until May 27 for gravel to surface 1.93 mi. in Concordia Parish; 5.23 mi. in Union Parish; 4.29 mi. Lincoln Parish, and 9.37 mi. Pointe Coupee Parish; plans, etc. on file; J. M. Fourmy, State Highway Engr.

Gravel.—Rom P. LeBlanc, Sec. Police Jury, Abbeville, La.—Bids until June 4 to furnish and deliver 11,200 cu. yds. of washed and sand clay gravel in Road Dist. No. 2, Bermilion Parish.

Hardware.—Tejanlal Dinanath, (Cntrs.) Cawnpore, India— To correspond with manufacturers of following with view to representation: hand saws, hinges, butts, china door knobs, screw augers, till and chest locks, wrought steel edge butts, chest handles, hasps, staples, rings, wire, wire nails, plain iron files, etc.

Heating Systems, — J. O. W. Gravely, Rocky Mount, N. C.—Data and prices on heating systems for private residences.

Hoisting Equipment.—Theo. Randmetz, 14th. St. Terrace, Miami Fla.—To purchase equipment for hoist including gasoline engine that will lift about 1500 lb. and sufficient cable for three-story building.

Incinerator.—City of Natchez, Miss. Details under Construction News—Miscellaneous Construction.

Iron and Steel.—Tejanlal Dinanath, (Cntrs.) Cawnpore, India.—To correspond with manufacturers of the following, with view to representation: M. S. plate 1/8 and 3/16-in. and upward, R. S. joists, angles, tees, flat, square and round rods, hoops, hexagonal rods and bars, corrugated and plain galvanized sheets.

Joists (Steel) and Angles.—See Iron and Steel.

Lathe.—The Veneer Manufacturing Co., W. A. Stilley, Sec.-Mgr., Conway, S. C.—Prices on 18-in. x 8-ft. lathe for machine shop.

Lathe.—Red Cap Battery Co., St. Louis, Mo.—To purchase belt driven lathe for machine shop.

Lead Pencils.—D. W. Bolin, Jr., Box 255, Pine Bluff, Ark.—Names and addresses manufacturers of lead pencils.

Loading Gear.—See Conveying Machinery.

Motor (Electric)—H. Eberman Ice Plant,

Morgantown, Ky.—One 20 h.p., 3 phase, 60 cycle, 440 volt motor.

Locomotive.—D. C. Elphinstone (Mchy. Dealers), 408 Continental Bldg., Baltimore, Md.—One 18-ton, 36-in. gauge locomotive.

Miscellaneous Supplies.—R. Verstraeten L. Tanier, Boulevard Adolphe Max, 98, Brussels, Belgium.—To correspond with manufacturers of following with view to representation: machines for making ropes, packthread, hemp, mats and straw mats; materials and machinery to make chicory distilling brewery and malt making; also material for grinding, crushing and pulverizing.

Motor.-See Waterworks Equipment.

Motor (Electric).—U. S. Electric Co., 703 Van Buren St., Chicago, Ill.—25 h.p. motor.

Motors (Electric).—R. B. Reynolds, Leaman, N. C.—To purchase 30 or 35 h.p. also 5 or 6 h.p. electric motors, 110 volt, direct current; state price and condition; prefer second-hand equipment.

Paper Cutter (Power).—See Print Shop Equ pment.

Paving.—Town of Gulfport, Fla. Details under Construction News—Road and Street Construction.

Paving.—City of Shreveport, La. Details under Construction News—Road and Street Construction.

Paving.—City of Huntington, W. Va.—Details under Construction News—Road and Street Construction.

Peanut Butter Machinery.—Sunshine Potato Chip Co., E. D. Greene, 1416 Liberty St., Jacksonville, Fla.—Prices on peanut butter machine.

Paint and Brushes.—John K. Spaulding (Mchy. Dealer) Fullerton, La.—Data and prices on paint and brushes.

Piano (Player) Supplies.—Pipeless Pipe Organ Co., Percy Preston, Pres., Ardmore, Okla.—To purchase supplies used in the construction of player piano and reed organs.

Pipe (Terra Cotta)—Town of Southern Pines, N. C., R. L. Chandler, Clk.—Prices on 3000 to 4000 ft. of first grade 18-in. terra cotta sewer pipe; state time of delivery, etc.

Print Shop Equipment.—The Dixie Press, 317 N. E. 1st Ave., Miami, Fla.—To purchase 36-in. belt driven power printing press, also power paper cutter.

Pipe (Cast Iron).—Malden Compress Co., L. R. Ray, Supt., Malden, Mo.—Prices on 1500 ft. 8-in., 2000 ft. of 6-in., 1000 ft. of 4-in. cast iron pipe, Class B; second-hand.

Pump (Fire)—The Veneer Manufacturing Co., W. A. Silley, Sec-Mgr., Conway, S. C.—Prices on 500 gal. fire pump.

Pump (Centrifugal)—H. Eberman Ice Plant, Morgantown, Ky.—Centrifugal pump, 8000 gal. per hour against 350 ft. head.

Pumps .- See Waterworks Equipment.

Reed Organ Supplies.—Pipeless Pipe Organ Co., Percy Preston, Pres., Ardmore, Okla.— To purchase supplies used in the construction of reed organs and player pianos.

Refrigeration Equipment.—Allie Cook, New Bern, N. C.—Prices on refrigeration equipment for meat packing plant.

Rods and Bars .- See Iron and Steel, etc.

Rotary Converter.—C. M. Roswell, (Mchy. Dealer), 1162 Marlyn Road, Philadelphia, Pa.—1000 k.w., 600 volt, d.c. railway type, 60 cycle, rotary converter with or without transformers for operation from a 3 phase, 13,200 volt, 60 cycle circuit.

Road.—Louisiana Highway Comn., Baton Rouge, La. will build 5 roads. Details under Construction News—Road and Street Construction.

Road.-Jim Wells County, Alice, Tex. De-

tails under Construction News-Road and Street Construction.

Road.—Brewster county, Alpine, Tex. Details under Construction News—Road and Street Construction.

Road.— Dimmitt County, Carrizo Springs, Tex. Details under Construction News— Road and Street Construction.

Road.—State Highway Dept. Jefferson City, Mo., will build 21 roads. Details under Construction News—Road and Street Construction.

Road.—Morehouse Parish Police Jury Bastrop, La., will build 2 roads. Details under Construction News—Road and Street Construction

Road.—State Roads Comn., Baltimore, Md., will build 6 roads. Details under Construction News—Road and Street Construction.

Road Roller, etc.—Lewter F. Hobbs, Inc., Norfolk, Va.—10 ton, 3 wheel, road roller with scarifier attached; modern and in good condition.

Road.—Commrs. of Jupiter Inlet Dist., J. Thomas Zeigler, Chrmn., Jupiter, Fla.—Bids until May 17 for rock to be placed in Jupiter river and at Jetty.

Road. — Palo Pinto county, Palo Pinto, Tex. Details under Construction News— Road and Street Construction.

Road.—Milam county, Cameron, Tex. Details under Construction News—Road and Street Construction

Road.—Mobile County, Mobile, Ala. Details under Construction News—Road and Street Construction.

Road Roller.—Kinney County Commrs., Brackettville, Tex., bids will be received for 10 ton road roller.

Road.—State Highway Comn., Raleigh, N. C., will build 12 roads. Details under Construction News—Road and Street Construction.

Road.—Madison County, Huntsville, Ala, Details under Construction News—Road and Street Construction.

Road.—Travis County, Austin, Tex., will improve 2 roads. Details under Construction News—Road and Street Construction.

Road.—State Highway Comn., Frankfort, Ky., will improve 46 roads. Details under Construction News—Road and Street Construction.

Road.—State Highway Comn., Richmond, Va. Details under Construction News—Road and Street Construction.

Road.—Williamson County, Georgetown, Tex., will build two roads. Details under Construction News—Road and Street Construction.

Road.—State Roads Comn., Baltimore, Md., will build 7 roads. Details under Construction News—Road and Street Construction.

Road. — Vermilion Parish, Abbeville, La. Details under Construction News—Road and Street Construction.

Roofing (Steel).—U. S. Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids opened May 8 to furnish 300 sheets steel roofing; delivery Quantico, Va., Sch. 495.

Rope (Manila)—John K. Spaulding (Mchy. Dealer) Fullerton, La.—To purchase 1-in. genuine manila, 3 strand rope; give manufacturers name.

Scraper (Motor).—W. D. Nevas, City Engr., Greenville, S. C.—Data and prices on motor driven scraper.

Sewer.—City of Little Rock, Ark. Details under Construction News—Road and Street Construction.

Sewer Construction .- District of Columbia.

Details under Construction News-Sewer Construction.

Soap Making Machinery.-Ewing Wilder, Middlesborough, Ky.-Data and prices on machinery for making soap.

Stamping Machinery .- D. W. Bolin, Jr., Box 255, Pine Bluff, Ark .- Data and prices on machine to stamp advertising on pencils.

Stand Pipes .- M. S. Hodges, City. Atty,. Franklin, W. Va .- To correspond with manufacturers of stand pipes for water

Steel Sash and Window Frame,-E. L. Martin, Chancery Clk., Courthouse, Waynesboro, Miss.-Prices on 6 twin window frames and 2 single frames, steel and steel sash rail, for 30x36-in. 2 light windows; windows to be set in 17-in brick wall.

Steel Tank (Water) and Tower.-John K. Spaulding, (Mchy. Dealers) Fullerton, La.-Prices on second-hand steel water tank and tower; give complete description.

Steel Water Tank and Tower .- Commrs. of St. Michaels, Md., Thos. H. Sewell, Clk .-Bids until May 15 on alternate 75,000 gal. and 100,000 gal. steel water tank on 75 ft. steel towers; also on demolition and razing of existing 60,000 gal, wood tank and 70 ft. steel tower; Kastenhuber & Anderson, Engrs., Box R, Easton, Md. Steam Shovel.—The Sales Corp., (Sales

Engrs.), 1423 New York Ave., N. W., Washington, D. C .- To purchase 34-yd. Erie or Marion steam shovel with crawler type traction and high lift boom.

Structural Steel .- John K. Spaulding, (Mchy. Dealers) Fullerton, La.-125 tons light structural steel.

Sulphate Alumina (Filter Alum) .- Marine Corps, Quartermaster's Dept., Washington, D. C .- Bids until May 12 to furnish 40,000 lbs. sulphate alumina; delivery Marine Barracks, Quantico, Va. Sch. 500.

Tanks, etc.-Lewis Auto Sales, 1558 Washington St., Charleston, W. Va.-Prices on gasoline tanks, pumps, etc.

Tank (Oil Storage)-H. Eberman Ice Plant, Morgantown, Ky.-600 to 1200 gal. steel tank for fuel oil storage.

Textile Mill Machinery .- Southern Bag & Burlap Co., Houston, Tex. Prices on machinery for stripping and weaving bagging.

Tractors .- T. O. Murray, Collins County Judge, McKinney, Tex.—Bids until May 14 for 4 tractors, crawler type, to pull 12 ft. grader; F. W. Cawthon, County Engr.

Transformer.-H. Eberman Ice Plant, Morgantown, Ky.-15 KW, 3 phase, 60 cycle, 2300 volt transformer, 440-220 secondary.

Vacuum Pump .- Pipeless Pipe Organ 'o., Percy Preston, Pres., Ardmore, Okla.-To purchase electrically operated equipment to furnish vacuum for use in reed organs and player pianos.

Vault Lights.—E. L. Martin, Chancery k., Courthouse, Waynesboro, Miss.—2 Clk., Courthouse, Waynesboro, Miss.-2 vault lights, steel frames and trim, size 30 x 36-in.

Wall Board .- U. S. Marine Corps, Quartermaster's Dept., Washington, D. C .- Bids until May 9 to furnish 52,000 sq. ft. wall board, delivery Quantico, Va., Sch. 487.

Water Works .- City of St. Louis, Mo. Details under Construction News-Water Works.

Water Wor. Works Improvements.-City Details under Construction News. Water Works.

Water Works Improvements.—City of Oklahoma City, Okla. Details under Construction News-Water Works.

Water Wheel Equipment.-Town of Walnut Cove, N. C., H. R. McPherson, Clk.,

opens bids May 8 for the following waterwheel equipment: Two 400 h.p. vertical wheels, direct connected to umbrella type generators, speed 200 r.p.m. to operate under 18 ft. head; two governors of approximately 6000 ft.-lbs. for above mentioned wheels; top of generator foundation to be 30 ft.; racks for equipment made up of nineteen 2 ft. sections, bars to be 16 ft. 6 in. long; water house for each wheel to be 17 ft. wide; three hoisting irons capacity to raise gate 5x6 ft. against the minimum head of 18 ft.; state prices, f. o. b. Walnut Cove; I. W. Barber, Engr., Mt. Airy, N. C.

Water Works.-See Stand Pipes.

Water Works Equipment.-Wilson J. Peck, Trustee of Public Property, Lafayette, La. -Bids until May 12 to furnish deep well pump, motor and booster pump with mo-

Wire Brushes .- John K. Spaulding (Mchy. Dealer) Fullerton, La.-Data and prices on wire brushes.

Wire Screening .- Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until May 10 to furnish 69 rolls wire screen cloth; delivery Depot Quartermaster, Foot of Snyder St., Philadelphia, Pa. Sch. 499.

Woodworking Machinery .- F. E. Meigs, Box 27, Peru, N. Y .- To correspond with manufacturer of moulder for making specially designed strips.

Wood-Splitter .- W. A. Stephens Coal Co., Anderson, S. C .- Prices on used wood-splitter; prefer 24-in. stroke, double or single; good condition.

Wrapping (Package) Machinery.-Sunshine Potato Chip Co., E. D. Greene, Pres., 1416 Liberty St., Jacksonville, Fla.-Prices on package wrapping machinery.

Financial News

New Financial Corporations

Ala., Newton-Citizens Bank, capital \$10,-000, chartered with Mittie K. Hayley, Pres.; S. T. Jones, cashier.

Ark., Hope-First National Bank of Hope, capital \$100,000, chartered with George H. Bell, Pres.; Lloyd Spencer, cashier.

D. C., Washington-Title Guarantee Co. of Maryland, capital \$100,000, incorporated by T. Howard Duckett, Evans Bldg., Irvin Owings and others.

Fla., Daytona-Peninsula Bond and Mortgage Co., incorporated with E. E. Wilde, Pres.; Burwell Thornton, Sec.

Fla., Miami-H. Jerome Carty Mortgage Co., capital \$100,000, incorporated with H. Jerome Carty, Pres.; James R. Hicks, Sec.

Fla., St. Petersburg - Rogers-Scott & Thomas, Inc., 216 Hall Bldg., capital \$50,000, organized with C. F. Rogers, Pres.; Roy Scott. Sec.-Treas.

Fla., West Palm Beach-Southern Financiers, capital \$50,000, incorporated with M. D. Carmichael, Pres.; Mary E. Bozeman, Sec.-Treas.

Ky., Corbin—Corbin Building & Loan Assn., capital \$100,000, incorporated by A. B. Johnson, W. S. Chappelle and others.

La., Crowley-First National Bank of Crowley, capital \$100,000, incorporated with C. J. Freeland, Pres.; C. D. Andrus, Cashier.

Md., Baltimore-Forest Permanent Build-

capital \$500,000, chartered by John W. Kraus, Michael A. Abrams and others.

Md., Baltimore-Oakmont Building & Loan Assn., Inc., 300 Equitable Bldg., capital \$200,-000, chartered by Samuel Needle, Sidney B. Needle and others.

Md., Baltimore-Rollins Building & Loan Assn., 317a Equitable Bldg., capital \$100,000, incorporated by Harry E. Goldsmith, Samuel Silberstein and others.

Md., Baltimore-Chesapeake Mortgage Co., capital \$1,000,000, incorporated with J. Monroe Holland, Pres., Munsey Bldg.; Jos. Mc-Williams, Sec.

Miss., Vicksburg-City Mortgage & Securities Co., capital \$50,000, incorporated with C. L. Warner, Pres.

N. C., Henderson-Bank of Vance, capital \$50,000. organized with K. L. Burton, Pres.; F. H. Hayes, Asst. Cashier.
N. C., Raleigh—Carolina Mutual Life In-

surance Co., capital \$100,000, organized with W. N. Everett, Pres.; J. M. Broughton, At-

S. C., Cheraw - Cheraw Mercantile Co. chartered with W. E. Hurt, Jr., Pres.-Treas.

S. C., Greenwood-Mutual Building & Loan Assn. of Greenwood, capital \$250,000, chartered with J. B. Sloan, Pres.; Ravenel B. Curry, Sec.-Treas.

Tenn., Chattanooga-Hamilton Securities Co. incorporated by B. H. Rogers, V. K. Alexander, S. R. Jenkins and others.

Tex., Dallas - Lakewood Investment Co., capital \$26,000, incorporated by J. B. Rucker, A. F. Korn and others.

Tex., Fort Worth-Interstate Bond & Mortgage Co., capital \$100,000, incorporated by T. W. Slack, L. B. Comer and others.

Tex., Jasper-Jasper Finance Corp., capital \$15.000 chartered by J. H. Seale, J. A. Henderson, Jr. and others.

Va., Chatham - Pittsylvania Agricultural Credit Corp., capital \$10,000, chartered with Lee Paul, Pres.; R. B. Law, Sec.

Va., Danville-Owens Credit Corporation, capital \$500,000, incorporated with S. J. Owens, Pres.; Wade H. Pierce, Sec.-Treas.

New Securities

Ala., Anniston-Improvement-City will receive bids soon for \$258,000 bonds. Address The Mayor.

Ala., Birmingham-School-Board of Education and City Comn. will call election May 13 to vote on \$3,500,000 bonds. Noted April 10.

Ala., Sylacauga-School-City voted \$40.-000 bonds. Address The Mayor.

Ark., Hot Springs-Notes-City sold \$250,-000 \$500 and \$1000 denom. notes to Gordon & Waddell, New York.

Ark., Osceola-Drainage-Commrs. of Sub. Dist. No. 1, Drainage Dist. No. 12, Mississippi County, sold \$100,000, 6% bonds to M. W. Elkins, Little Rock, Noted April 17, bids until April 25.

Fla., Clearwater-School-Pinellas County Commrs. sold \$225,000 bonds to Ninth St. Bank & Trust Co., St. Petersburg, at \$226,-

Fla., Daytona Beach-Comfort Station-Harry A. Horn, attorney, will call election soon to vote on \$8000 bonds.

Fla., Fort Lauderdale-Municipal Improvements-City will vote on \$200,000 bonds. Address The Mayor.

Fla., Fort Pierce-Municipal Improvements-City votes July 1 on \$500,000 bond

ing & Loan Assn., Inc., 344 Equitable Bldg., In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned,

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issue, including following: Water extension and improvements, \$125,000; storm and sanitary sewers, \$100,000; street intersections, \$70,000; city hall, \$50,000; streets and viaducts, \$35,000; seawall, \$10,000; concrete bridges over canal, \$20,000; public parks, \$40,000; jail, fire station and incinerator, \$30,000; city owned wharves and piers, \$20,000. Address The Mayor.

Fla., Jacksonville—Refund—City Comn., E. P. Owens, Jr., Sec., sold \$400,000, 5% bonds to Blodget & Co., New York, and Detroit Trust Co., Detroit, at premium of \$25,253. Noted April 17.

Fla., Key West—Municipal Golf Course— City voted \$60,000 bonds. Address The Mayor. Noted May 1.

Fla., LaBelle—Improvements—Town, J. R. Doty, Clk., sold \$25,000 6% \$1000 denom. bonds to Bank of LaBelle at 95. Noted March 20.

Fla., Miami—Public Improvement—City, F. H. Wharton, Mgr., votes May 21 on \$950,000 bonds.

Fla., Melbourne—Sewer—City plans voting on \$35,000 bonds. Address The Mayor.

Fla., Ocala—Road—Marion County, Board of Commrs., T. D. Lancaster, Jr., Clk. voted \$1,500,000 bonds. Lately noted.

Fla., Tampa—Water—City Attorney H. S. Hampton, and City Comptroller A. A. Miller, Trustees of city's sinking fund, purchased \$126,000 bonds at par.

Fla., Tavares—General Obligation—City, J. W. Hunter, Mayor, receives bids May 20 for \$138,000, 6% bonds.

Ga., Barnesville—Water and Sewer—City voted \$30,000 bonds, including \$20,000 water and \$7000 sewer. Address the Mayor.

Ky., Hickman—Road and Bridge—Fulton county receives bids May 21 for \$100,000, 5% bonds; C. B. Davis, County Treas. Noted May 1.

La., Belcher—School—City sold \$70,000 5% Belcher School Dist. bonds to Mrs. R. T. Layne, Shreveport, at par and accrued interest.

La., Mansfield—Road—De Soto Parish voted \$1,000,000 bonds. Address Parish Police Jury. Lately noted.

La., New Orleans—Refund—Board of Liquidation, City Debt., Bernard C. Shields, Sec., sold \$1,200,000, 4½% bonds to Canal Commercial Trust & Savings Bank, and others at \$1,167.960 and accrued interest. Noted April 24.

La., Thibodaux—Road—Lafourche Parish Police Jury receives bids May 21 for \$85,000 6% bonds; Charles J. Coulon, Clk.

Md., Annapolis—Road and Bridge Loans—Board of Public Works of Maryland receives bids June 11 for \$1,500,000, 4½% lateral and post road loans, and \$300,000, 4½% bridge and grade crossing loans; Albert C. Ritchie, Governor; John M. Dennis, Treas.

Md., Pocomoke City—City, E. James Tull, Mayor, sold 5% improvement bonds to Stein Bros. & Boyce, Baltimore, at \$105.666. Noted April 24.

Md., Rockville—Road—Montgomery County Commrs., Berry E. Clark, Clk., receives bids May 13 for \$27,500, 4½% bonds.

Miss., Jackson—H. L. Whitfield, Governor, receives bids June 24 for \$5,816,500, 5% bonds; all recent bids rejected. Noted April 17.

Miss Magnolia—Water Works Refunding— City sold \$23,000 bonds to Caldwell & Co., Nashville, Tenn., at par and accrued interest.

Miss., Taylorsville—School—City voted \$25,000 bonds. Address The Mayor.

Mo., Boonville—Road—Cooper County votes May 13 on \$45,000 bonds. Address County Commrs. Mo., Caruthersville—Refund—City voted \$16,500 bonds. W. D. Byrd, Mayor; Thos. B. Wood, Clk. Noted April 24.

Mo., Caruthersville—Drainage—Elk Chute Drainage Dist., Pemiscot and Dunklin Counties Commrs. sold \$250,000 51/4 % \$1000 denom. bonds jointly to Stifel, Nicolaus & Co. and Lorenzo E. Anderson & Co., both St. Louis.

Mo., 'Caruthersville — Drainage — Pemiscot County Drainage Dist, No. 12 sold \$32,000 5½% bonds to Liberty Central Trust Co., St. Louis, Mo.

Mo., Festus—School—City sold \$50,000 5% \$500 and \$1000 denom. Festus School Dist. bonds to Stifel. Nicolaus & Co., St. Louis, Mo.

Mo., Harrisburg—School—City will vote soon on \$15,000 bonds. Address Pres., School Board.

Mo., Jasper—School—City sold \$30,000 Jasper School Dist. bonds to Commerce Trust Co., Kansas City. Noted April 17, voted bonds.

Mo., Jefferson City—Soldier Bonus Claim— State Board of Fund Commrs. receives bids May 15 for \$3,600,000 41/2% bonds.

N. C., Asheville—School—Buncombe County Commrs., Oakley Special School Tax Dist., approved sale of \$25,000, 5½% \$1000 denom. bonds. Address County Commrs.

N. C., Benson—School—City sold \$40,000 6% Benson Graded High School Dist. bonds to Bumpus, Hull & Co., Detroit, Mich., at par plus premium of \$2519.

N. C., Bethel—Light and Power—Town, J. W. Rook, Mayor, receives bids May 12 for \$25,000, 6%, \$1000 denom. bonds.

N. C., Clayton—School—City sold \$130,-000 6% Clayton Graded School Dist. coupon bonds to Sidney, Spitzer & Co., Toledo, at premium of \$7815.

N. C., Goldsboro—Bridge—Wayne County Commrs., G. E. Grantham, Clk., receives bids June 2 for \$25,000, 5% bonds.

N. C., Pine Level—School—City sold \$30,000 6% Pine Level School Dist. coupon bonds to Sidney, Spitzer & Co., Toledo, Ohio, at premium of \$1571.

N. C., Rocky Mount—Water, Light and Fire Station—City, C. H. Harris, Clk., sold \$385,000 coupon bonds jointly to Bankers Trust Co., Hannahs, Ballin & Lee, and Durfee & Marr at premium of \$2964.50. Noted April 17.

N. C., Tryon—Water Works—Town, W. S. Green, Mayor, sold \$28,000 6% bonds to Spitzer, Rorick & Co., Toledo, Ohio, at premium. Noted March 27.

Okla., Chandlér—Road.—Lincoln County votes June 10 on \$990,000 bonds. Address Lincoln County Good Road Assn. Lately noted.

Okla., Newkirk—Water and Sewer—City defeated \$135,000 bond issue. Address The Mayor.

Okla., Tonkawa—City votes May 13 on bonds. Address The Mayor.

S. C., Edgefild.—Highway—Edgefield County Highway Comn., receives bids May 15 for \$100,000, $5\frac{1}{2}$ % bonds. G. H. Ballentine, Sec.

S. C., Inman-Water and Sewer-Town sold bonds to Heyward & Co., Columbia, S. C., at par.

S. C., Greenville—School—Woodville Community voted \$13,000 bonds. Address Pres. Board of School Trustees.

S. C., Mining—Bridge—Clarendon County votes May 22 on \$90,000 bonds. Address County Commrs.

S. C., Orangeburg—Bridge—Orangeburg County votes May 22 on \$90,000 bonds. Address County Commrs. S. C., Walterboro — Highway — Colleton County sold \$250,000 51/2% bonds to Providence Savings Bank & Trust Co., Cincinnati, Ohio, and Robinson-Humphrey Co., Atlanta, Ga., at \$259,975 with accrued interest. Noted April 24.

S. C., Winnsboro—Road—Fairfield County sold \$500,000 bonds to banks of Winnsboro, at par with premium of \$185. Noted April 17.

S. C., Winnsboro—Road and Bridge—Fairfield County reported sold \$500,000 5% bonds to Lockwood, Greene & Co., Engrs., Spartanburg, at \$500,185 and accrued interest. Noted April 17.

S. C., Woodruff School—Woodruff School Dist, No. 3 voted \$50,000 bonds. Address Pres, School Board.

Tenn., Greeneville—Road—Green County Court, G. M. Mitchell, Chmn., receives bids May 10 for \$75,000 5% \$1000 denom. bonds. Noted April 17.

Tenn., Jackson—Municipal Improvements—City, Lawrence Taylor, Mayor, voted \$890,000 bonds, including street improvement, \$500,000; water plant, \$150,000; schools, \$115,000; city hall, \$125,000. Lately noted.

Tenn., Knoxville—Sewer—John C. Borden, Director of Finance, plans selling \$200,000 Oakwood sewer bonds; Louis Brownlow, city Mer.

Tenn., Memphis—Jail and Tuberculosis Hospital—Shelby County Court, C. G. Gowen, Chmn., receives bids May 26 for \$300,000 5½% and \$300,000 4¾% \$1000 denom. jail bonds, and \$100,000 4¾% \$1000 denom. hospital bonds.

Tenn., Memphis — Street Improvement — City Comn. contemplates selling \$27,000 bonds.

Tenn., Nashville—Municipal Improvements—City, S. H. McKay, Clk., receives bids May 9 for \$130,000 5% general improvement bonds, \$160,000 5½% street improvement and \$200,000 5% Church St. widening and improvement bonds.

Tex., Anahuac—Road—Chambers County votes May 24 on \$100,000 bonds; Jos. F. Wilson, County Judge.

Tex., Austin—Water, Light and Power—City sold \$650,000, 6% bonds to J. L. Arlitt, Austin.

Tex., Beeville—School—Board of Trustees, Beeville Independent School Dist., John R. Beasley, Pres., will call election May 10 to vote on \$30,000 bonds.

Tex., Blooming Grove—Water and Sewer— Town voted \$70,000 bonds for water and sewer bonds. Address The Mayor.

Tex. Boston—Road—Bowie County, New Boston Precinct, voted \$130,000 bonds. Address County Commrs.

Tex., Boston—Road—Bowle County, Precinct No. 1, votes May 24 on \$490,000 bonds. Address County Commrs.

Tex., Brownsville—Drainage—Cameron County, receives bids May 12 for \$75,000 6% bonds; Oscar C. Dancey, County Judge. Noted April 24.

Tex., Cameron—Road and Bridge—Milam County, Precinct No. 10, voted \$75,000 bonds. Address County Commrs. Lately noted.

Tex., Chillicothe—Heating Plant—City voted \$14,000 bond Issue. Address The Mayor.

Tex., Coleman—Coleman County votes May 24 on \$100,000 51/2 % bonds. Address County Commrs

Tex., Dalhart—School—Board of Trustees of Dalhart Consolidated Independent School Dist. of Dallam and Hartley Counties, F. E. Thomas, Sec., will call election May 23 to vote on \$10,000 bonds.

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Tex., Dodsonville—School—City, O. M. Gould, Sec. Board of Trustees, receives bids May 10 for \$16,000 5½% bonds. Noted May 1 voted bonds.

Tex., El Paso—Municipal Improvements—City, Mayor Dudley, voted \$1,045,000 bonds, including sewers, \$100,000; river protection, \$105,000; paving, \$100,000; parks, \$95,000; street and alley grading, \$50,000; Rio Grande St. retention wall, \$49,000; fire station, \$40,000; school, \$500,000, and Copia, Dallas and Magoffin drainage, \$9000. Noted April 10

Tex., Georgetown—Road and Bridge—Williamson County receives bids May 27 for \$30,000, 5½%, \$1000 denom. bonds. R. A. Nichols. County Engr.

Tex., Groesbeck—Road—Limestone County Road Dist. No. 20 votes May 17 on \$75,000 bonds. Address County Commrs.

Tex., Houston—Municipal Improvements— City defeated \$1,350,000 bond issue; will vote June 3 on bonds; H. A. Giles, City Comptroller. Lately noted.

Tex., Irving P. O. Dallas—Water—Town plans voting on \$25,000 bonds; W. J. Wright, Pres. Board of Supvrs.

Tex., Kingsville—School—School Board of Kingsville Independent School Dist. voted \$40,000 5% bonds. Noted Feb. 28.

Tex., Lubbock — School — Lubbock Independent School Dist, will call election May 20 to vote on \$125,000 bonds. Address Pres. Board of Trustees.

Tex., Marlin—Falls County votes May 24 on \$115,000 bonds; W. S. Hunnicutt, County Judge, Marlin.

Tex., Merkel—Sewer—City votes May 14 on \$50,000 bonds; Municipal Engineering Co., Engrs., Praetorian Bldg., Dallas, Tex.

Tex., Parker—School—Board of Education will call election May 17 to vote on \$200,-000 bonds. Address Secretary.

Tex., Parker—School—Parker School Dist. votes May 17 on \$20,000 bonds. Address Pres. School Board.

Tex., Raymondville—Road—Willacy County votes May 24 on \$295,000 bonds. Address County Commrs.

Tex., Roscoe—School—City votes May 24 on \$295,000 bonds. Address Pres. School Board.

Tex., San Diego—Road—Duval County votes May 17 on \$400,00; bonds; George A. Parr, County Judge.

Tex., San Marcos—Street Improvement— City votes May 20 on \$25,000 bonds. Address The Mayor.

Tex., Tyler—School—City sold \$40,000 5% bonds to Citizens National Bank of Tyler.

Tex., Waco—Street and Alley Improvement—City, Thos. P. Stone, Mayor, votes May 31 on \$250,000 bonds.

Tex., Weatherford—School—City sold \$18,-000, 5%, \$1000 denom. bonds to J. L. Arlitt, Austin.

Tex., Wharton — Reclamation — Wharton County voted \$600,000 bonds. Address County Commrs.

Tex., Wichita Falls—Road—Wichita County Commrs., Precinct No. 4, voted \$500,000 bonds; B. D. Sartin, County Judge. Lately poted

Va., Berryville—Refunding—Clark County Board of Supvrs., Eugene Glover, Clk., receives bids May 19 for \$30,000 5% bonds.

Va., Danville—Electrical Improvements—City Auditor, Richard L. Moss, sold \$100,000 5½% bonds to Baker, Watts & Co. and Nelson, Cook & Co., both Baltimore, Md. Noted April 10.

Va., Danville—School—City votes June 10 on \$350,000 bonds, Address Pres, School Board, Previously noted.

Va., Hopewell — School — Prince George County Commrs. Court will call election May 9 to vote on \$200,000 bonds. Noted April 24.

Va., Martinsville—Refund—Henry County Board of Supvrs. sold \$100,000 5½% bonds to Title Guarantee & Trust Co., Cincinnati, Ohio, at premium of \$1460.

Va., Roanoke — Emergency — City plans voting in July on bonds, Address The Mayor.

Va., Waverly — Sussex County Board of Supvrs. receives bids May 14 for \$20,000 bonds.

W. Va., Beckley—Road—Raleigh County Court, Jackson Smith, Clk., receives bids May 24 for \$400,000 5% bonds.

. W. Va., Clarksburg—Court House—Harrison County plans voting May 27 on \$1,000,000 bonds. Address County Commrs.

W. Va., Franklin—Court House—Pendleton County Court votes May 27 on \$48,000 bonds; E. W. Dolly, Clk.

W. Va., Kenova—Street Paving—City contemplates voting on \$200,000 bonds. Address The Mayor.

W. Va., Morgantown—Sewer—City plans voting soon on \$700,000 to \$1,000,000 bonds; G. H. Bayles, City Mgr.

W. Va., Shinnston—Water, Sewer, Incinerator—City, F. T. Robey, Mayor, receives bids May 31 for \$45,000, 5½ % bonds. Noted April 17, voted bonds.

W. Va., Weston—Road—Lewis County, Court House section, contemplates \$500,000 bond issue. Address County Commrs.

Financial Notes

Arkansas Abstract & Loan Co., Little Rock, Ark., changed name to Little Rock Abstract & Guaranty Co.; Elmer McClure, Sec.

Equitable Life & Casualty Insurance Co., Frankford, Ky., increased capital from \$100,-000 to \$200,000; former location Louisville, Ky.

Farmers & Merchants Bank, Pennsboro, W. Va., B. F. McGinnis, Cashier, merged with Citizens' National Bank of Pennsboro.

Kanawha Savings & Loan Assn., Masonic Bidg., Charleston, W. Va., plans increasing capital from \$5000 to \$10,000; David Dick,

La Salle Fire Insurance Co., New Orleans, La., increased capital to \$645,936.

Mortgage Loan & Realty Co., Inc., Baton Rouge, La., increases capital from \$150,000 to \$300,000. Aaron Bernard Murray, Sec.

National Bond & Mortgage Co., Houston, Tex., increases capital from \$100,000 to \$200,000.

North Texas Trust Co., Dallas, Tex., increased capital from \$50,000 to \$60,000.

Security National Bank of Muskogee, Okla., absorbed Muskogee National Bank, capital \$200,000; L. S. Bagley, Liquidating Agt.

Texas Loan & Mortgage Co., Wichita Falls, Tex., increased capital from \$25,000 to \$50,-000.

Union Trust Co., Charles and Fayette Sts., Baltimore, Md., plans increasing capital from \$550,000 to \$750,000.

Union & Planters Bank & Trust Co., Memphis, Tenn., increased capital from \$3,000,000 to \$5,750,000.

Trade Literature

Improved Mounting for Steam Shovels.

Fulletin M-10 of the Bucyrus Company, South Milwaukee, Wis., describes the caterpillar mounting for railroad type steam shovels made by that organization. The bulletin is copiously illustrated with reproductions of photographic views showing shovels at work on different jobs, and particular attention is directed to the fact that with a shovel mounted on caterpillar treads there are no rails to lay, no jacks to release and to set, and the shovel is always ready to dig. Other pictures show details of construction and application of the mounting.

Portable Electric Charging Set.

The Ohio motor-generator, an electric set designed primarily to change any three-cell radio "A" or automobile ignition battery, is described and illustrated in a folder issued by the Ohio Electric & Controller Co., Cleveland. It is furnished complete on a substantial base with ammeter and field rheostat to adjust the charging rate. The motor is complete with ten-foot cord and attachment plug and the generator has six-foot flexible leads with spring connectors ready for instant connection and operation. The base is 12 by 19 inches and the entire device weighs only from 60 to 80 pounds.

New Bulletin on Electric Furnace Use

Annealing of castings and wire, heat treating, calorizing, sherardizing and other processes demanding the use of electric furnaces are shown in Bulletin No. 48,721 just issued by the General Electric Company, Schenectady, N. Y. The publication is mostly pictorial in character, the different views showing applications of this kind of heat in plants of the company. All of the pictures are very clear and full of detail. Particulars as to heat, dimensions and functioning of each installation are given in the captions. The title of the bulletin is "Direct Heat Electric Furnaces in General Electric Factories."

How to Resurface Brick Pavements.

The way to resurface worn brick and block pavements with asphalt is simply and clearly told in a booklet issued by the Texas Company, 17 Battery place, New York city. Full particulars are given to explain the method in detail, and photographs and cross-section drawings are reproduced so that the reader may fully understand. A copy of the booklet can be obtained from the asphalt sales department of the company at the foregoing address. There are also Texaco booklets available concerning sheet asphalt, asphaltic concrete, asphalt macadam, asphalt filler, road oils, surfacing materials and cold patch, all of this brand.

A Non-Balanced Turntable

A new catalogue describes the Bethlehem Twin-Span Turntable made by the Bethlehem Steel Company, Bethlehem, Pa. non-balanced turntable for locomotives and its distinctive feature is that it is not necessary to balance the table in turning an engine; consequently its capacity, it is stated, is greater than that of a table of balanced type of the same length. The first picture in the book shows one of these turntables in use at the Clifton Forge, Va., roundhouse of the Chesapeake & Ohio Railway when turning a huge Mallet type freight locomotive and its tender, the engine part of the machine resting wholly on one-half of the table. The catalogue gives full particulars, with diagrams showing the construction of these turntables, and there are also sundry other pictures showing them in use by various railroads.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

New Boiler-Return Trap.

Bulletin 726 issued by Warren Webster & Co., Camden, N. J., manufacturers of heating systems, is devoted to describing and illustrating the Webster boiler-return trap as used with the Type R modulation systems of the Webster type. This new device has a wide range of application, a description of which appears in the publication, together with full directions for installation.

A New Unit Heater Described.

The "Venturafin" unit heater is a new product described and illustrated in a folder issued by the American Blower Company, Detroit, Mich., manufacturer of fans, engines. heaters, blowers, air purifiers, dry kilns, brick dryers, special dryers and mechanical draft apparatus. It is stated that one big characteristic of this new heater is its enormous heating capacity as considered in comparison with its price-150,000 B. T. U's. per hour at a cost of \$240. There is a helical fin that adds to the surface of each tube and the heater is also very light in weight and it is adaptable to installations of all kinds. may be quickly installed; it is highly efficient and is designed for the heating of industrial buildings, warehouses, etc. Each square foot of its heating surface, which is of patented design, is capable, it is asserted, of radiating and does radiate five times the heat that can be given off by a cast iron heating surface of like inside diameter.

A Fine Advertising Booklet.

an exceedingly fine and entertaining booklet Warren Webster & Co., Camden, N. J., manufacturers of Webster systems of steam heating, have assembled some exceptionally interesting aerial photographs of representative American cities, a total of twenty-four in which these systems are used, as well as in hundreds of other places, in all of which they are providing comfortable and efficient warmth for all sizes and types of buildings. From one coast to the other there are, it is stated, 30,000 steam heating systems of this make doing satisfactory service whether they are in the long and severe winters of the northernmost states, or in the South where infrequent chilly spells of weather demand proper heating with equal emphasis. More than eight months' time was necessary to gather the pictures. The collection of the photographs and the preparation of the book were done by A. Eugene Michel and staff, advertising agents.

A Book About Southern-Made Tires.

Volume II of Selling Performance, issued by the McClaren Rubber Company, Charlotte, N. C., gives seventy-two pages of continued evidence of "Autocrat Tire" service on the nation's highways. On the second page is this quotation: "Mileage counts. The test of a tire is satisfaction, and service reverts to a question of mileage. It is mileage that we buy—not tires." The evidence offered by this Southern firm consists of reproductions of letters from users of these tires all over the country. Dated December 21, 1923, C. W. Caufield of Ventura, Cal., reports (duly attested) that the four 32x3½ tires on his Dodge car have given a total of 68,218 miles each. This is called "The outstanding record in the tire field." Other wonderful records are also reported for tires of this make, accompanied by pictures showing the condition of tires at the end of their respective runs. The book is most attractively arranged, illustrated and printed and the front cover page is done in suitable colors. The manufacturers of these tires have done a notable deed in so convincingly presenting a multitude of testimonials as to their superior qualities.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Is Now in New Position.

L. A. Marshall for many years service manager of the Industrial Works, Bay City, Mich., is now connected with their Chicago office, 1051 McCormick Building, as sales manager.

Large Addition to Factory.

Approximately 120,000 square feet of floor space will be added to the Homewood, Pa., plant of the Westinghouse Electric and Manufacturing Company when three new factory units now building are completed. They will be combined in a four-story and basement building, with a two-story materials building adjoining, and will be devoted to the manufacture of renewal parts and coils for electrical apparatus. This will make the total floor space used for this work 200,000 square feet. Including equipment the building will cost about \$700,000. They are being built by the Hughes-Foulkrod Company, contractors.

Organization of a New Firm

R. Lester Moore, attorney and counsellor-at-law, and J. K. Lasser, certified public accountant, have formed a partnership under the name of Moore & Lasser, whose practice will be confined primarily to tax matters affecting the publishing and allied industries. Offices of the firm are at 429 Mills Building, Washington, D. C., and 239 West 39th St., New York, N. Y. Mr. Moore until recently was connected with the Bureau of Internal Revenue, from which he resigned to enter upon this new professional connection, and Mr. Lasser has been practicing his profession at the New York address.

New Westinghouse Unit At Emeryville, Calif.

The Westinghouse Electric and Manufacturing Company has let contract to the Dinwiddie Construction Company of San Francisco to erect a second large building at Emeryville, Cal., which will accommodate a large assembling shop, extensive service and repair shops, a zone warehouse and various other facilities. It will cost about \$500,000 and will employ a large number of people. The building was designed by Bernard H. Prack, consulting architect, Pittsburgh, Pa., and Oakland, Cal., who also designed the building of the Westinghouse High Voltage Insulator Company at Emeryville and which has just begun operation. Mr. Prack has also lately completed at Emeryville a large factory for the Standard Underground Cable Company.

New Switchboard Plant Nears Completion.

Increased business in the manufacture of switchboards is the reason why the General Electric Company is erecting a new building at its West Philadelphia, Pa., plant which will be occupied about July 15 by from 800 to This new unit represents 1000 employes. only one section of a possible expansion program which began a year ago. A 1,000,000volt testing set, of design similar to that recently ordered by the Commonwealth Edison Company of Chicago will be installed in a specially constructed building in the West Philadelphia extension. It will be used in connection with the manufacture and test of high voltage oil circuit breakers. No removal of switchboard development work from the and the headquarters of the department will works at Schenectady, N. Y., is contemplated remain there.

Now at New Address.

The Inland Engineering Company, Incorporated, to properly meet demands of its rapidly growing business and to insure continued good service to customers, has bought suitable land, buildings and railroad facilities at 505 Kensington Avenue, near 115th Street, and Cottage Grove Avenue, Chicago, Ill., which is now its address. The company produces manganese steel castings and alloy steel castings.

Engineering Business Acquired.

It is announced that the Dock and Terminal Engineering Company, 15 Park Row, New York City, and 4614 Prospect Avenue, Cleveland, Ohio, has acquired the engineering business formerly conducted by the Cleveland Dock Engineering Company, and that its personnel is equipped by long and unusual experience to render the highest service in the development of docks, piers, wharves and warehousing and freight-handling facilities. Gaylord W. Fenga is president, Joseph S. Ruble, vice president; James D. Carey, secretary; Edgar B. Thomas, chief engineer, and Wilbur J. Watson, consulting engineer.

New Creosoting Plant on Full Time.

The plant of the Texas Creosoting Company, Orange, Tex., construction of which began about six months ago, started operations in the latter part of March and has increased its output until it is now working on full time. Considered from all engineering viewpoints, this is a model plant of ideal location and large capacity, which enables it to accept orders of any size. It produces creosoted piling, poles, ties, timbers, crossarms and sheet piling, particularly the Martinez "Interlock" type. The poles are styled "Texas Black Beauties" and there is a large stock on hand. A copper monogram dating nail is used to identify the products and to mark their quality.

Electrically Equipped Sand and Gravel Plant.

Sand and gravel to be used in constructing one of the largest hydro-electric plants in the South will be furnished by the Montgomery Gravel Plant at Arrowhead, Ala., which was recently electrified, to the Alabama Power Company for their Cherokee Bluffs power station, which will require about 300,000 cubic yards of sand and gravel for the powerhouse. Two 20-ton storage battery locomotives, each equipped with two 60 horsepower, 250-volt motors and a 100-cell Excide "Ironclad" battery, were shipped to the Montgomery plant by the General Electric Company, Schenectady, N. Y., to be employed for hauling this material from the pit. Sand and gravel are loaded by means of electric shovels into gondola cars of the 50 tons capacity, which are spotted alongside of the shovels on standardgauge track. The locomotives haul the cars from the pit to the hoppers, from which the gravel is fed by pan conveyors to a 30-inch, high-speed, Link-Belt conveyor, 285 feet long, with a 15 degrees incline. Next the gravel goes into a tank, is mixed with water and thence to revolving screens. A pump driven by electricity drives water hard enough to separate the gravel from the sand and the latter is then separated from the water in settling tanks and finally loaded into cars, 4000 tons a day.

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INSTALLING COAL MINING PLANT.

New Development in Lee County, Virginia, to Provide for Capacity of 2500 Tons Daily.

The new development under way near St. Charles in Lee county, Virginia, by the Blue Diamond Virginia Coal Co., of Middlesborough, Ky., covers the installation of a mining plant with an ultimate capacity of 2500 tons per day. The lease covers about 2100 acres of the No. 10 seam which averages 60 inches in thickness of high quality, very hard good blocking domestic and steam coal carrying upwards of 14,000 B. T. U. with about 2700 softening point of ash.

The coal is located on the mountain 1000 feet above the elevation of the railroad, necessitating two inclines 3400 feet in length with maximum grades of 57 per cent, one for handling men and supplies and the other, the main incline, for handling coal down the mountain. The smaller incline is operated by a 6-ton hoist manufactured by the Vulcan Iron Works, Wilkes-Barre, Pa., fitted with a 150-horsepower General Electric motor with full automatic control. On the main incline there will eventually be operated two 20-ton steel monitor cars on each end of the rope, bringing down 40-tons of coal each trip. The ropes on these inclines were manufactured by the A. Leschen & Sons Rope Company, St. Louis, Mo., the smaller 1-inch and the main incline rope 134inches diameter. The main incline will be operated with an incline machine manufactured by the J. & J. B. Milholland Company of Pittsburgh, having two drums 10 feet in diameter with brake rims on each side 15 inches wide, giving approximately 100 lineal feet of braking surface 15 inches wide. Asbestos band brake 21/2 inches thick and 15 inches wide manufactured by the Manhattan Rubber Company of Passaic. N. J., will be used. The monitor cars are being manufactured by the Sanford-Day Iron Works of Knoxville, Tenn.

The headhouse is of steel construction, one section carrying the two rotary dump and the other carrying the two weigh pans provided with Streeter Amet automatic weighing device, and two storage bins from which the monitors are to be loaded, fitted with compressed air operated undercut gates. This together with the tipple equipment at the foot of the incline, is being provided by the Link-Belt Company, Chicago, Ill., with the Wisconsin Bridge & Iron Company, North Milwaukee, Wis., subcontractors for the structural steel work. The bins at the headhouse have a capacity of 150 tons and 60 tons each respectively. The bin into which the monitors will dump at the foot of the incline has a capacity of 300 tons, and the coal from this bin is conveyed to the shaker screen on a Link-Belt steel pan conveyor. The tipple is arranged for loading on the first track run of mine or steam coal, on the second track egg coal and on the third and fourth tracks block coal. The fifth track is an

open track for handling empties to the storage yard above the tipple. Yard space has been provided for 70 cars both above and below the tipple. A 150-ton track scale is being provided by The Fairbanks Company, New York City. The mine cars provided for this operation were manufactured by the Sanford-Day Iron Works, of Knoxville, the mine locomotives by the Jeffrey Mfg. Company, Columbus, Ohio, and the cutting machines by the Goodman Mfg. Co., Chicago, Ill. The grading of the main incline and the railroad tracks was done by the Henderson Construction Company, of Knoxville, Tenn. The camp road and the double track tramway at the elevation of the coal were graded by the company's own forces, using a traction shovel purchased from the Erie Steam Shovel Company, Erie, Pa. This shovel constructed 21/2 miles of grade from the camp site up to the elevation of the coal, a large portion of which was through solid rock in 45 days, and constructed 6600 feet of grade for double tramway in 40 days. At the mining camp 100 dwellings of four and five rooms each, have been constructed by the company's

Owing to the very narrow valley at the tipple site, in which the tracks of the Black Mountain Mining Company are now located, is was necessary to straighten out the bed of Ballie's Trace of Straight Creek for a considerable distance, and for part of the distance it is conveyed in masonry culverts, on which the public road up the valley is carried.

The superintendent of the company is J. B. Dupuy and the engineer in local charge R. A. Handley, both at Diamond, Lee County, Virginia.

The officers of the Blue Diamond Virginia Coal Company are Alexander Bonnyman, President, Knoxville, Tenn.; James Bonnyman, Vice President, Cincinnati, Ohio; Robt. S. Young, Secy. & Treas., Knoxville, Tenn.; and H. C. Williams, Gen. Mgr., Middlesboro, Ky.

The plant is located on the Appalachia Division of the Southern Railway on tracks operated jointly by the Southern Railway and the Louisville & Nashville Railroad. It is contemplated that the greater part of the output from this mine will be sold in the Carolinas. It is expected that the main plant will be in operation early in May.

Louisiana to Contract for Twelve Miles.

Baton Rouge, La.—Proposals will be received until May 27 by the Louisiana Highway Commission at its office in this city for the construction of the following roads: For 5.23 miles in Union parish, 1.93 miles in Concordia parish, 4.29 miles in Lincoln parish and two sections in Pointe Coupee parish of 7.93 and 1.44 miles, respectively.

Plans, specifications and information may be obtained from the office of the commission.



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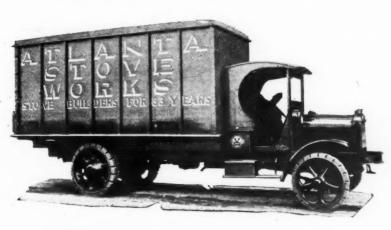
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Broadening the Knowledge of the South About the South

THE FOURTH NATIONAL BANK

Macon, Ga., February 13.

Manufacturers Record:

I think you observed when you called on us last time that you needed to use no persuasion in securing our third order for the Blue Book of Southern Progress.

In addition to its value in giving our own people information regarding the remarkable progress this territory has made, we have found the distribution of this book one of the best pieces of bank publicity that we have undertaken.

The appreciation of the book on the part of our friends is shown by the fact that each year we have increased the number of books ordered. A large number of the more successful men of this section have begun to look upon this book as a regular institution and along about this time of the year we commence to receive requests from them for information as to when the new edition will be available. Quite a number of our friends come to us for a second copy of the book, stating that their copy has either been carried off by an acquaintance or appropriated by a representative of their connections in other territory.

Just recently we had a letter from a gentleman who was traveling in Florida who stated that he had seen one of these books in the hands of one of our customers and that he would appreciate our sending him one if it were available.

The value which our people place upon the book is shown by the many public references made to its distribution and requests from various organizations that their executives be given a copy.

C. O. Carpenter, Assistant Vice-President.

The Fourth National Bank of Macon has found the Blue Book of Southern Progress so valuable for distribution among its friends in Georgia and to send to other sections to make known the progress of the South, that for three successive years it has ordered a large number of copies. In 1922 it ordered 550 copies and in 1923 it increased this to 1200. Of the 1924 edition just off the press it has also ordered 1200 copies.

Surely if this bank has found the Blue Book of Southern Progress of such value, every business concern in the South might wisely follow its example.

It should be in every business office, and in every public and private library in the South, and every man and woman in this section who want to know what their own country is doing or want to let other people in other sections know about the South, should order copies now and take an active part in the work of Southern upbuilding by spreading the story of the South and what it has done, what it is doing and what it will do, throughout the coming year.

1924 EDITION OF THE Blue Book of Southern Progress

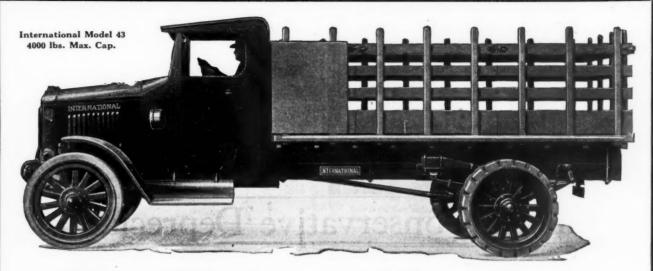
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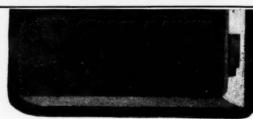
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11



Write for monograph R-5,"Property Records — Their Effect on Profit and Loss."

What Is Conservative Depreciation?



The A. A. Representative

There are American Appraisal representatives located in 21 of the larger cities to aid in analyzing your problems along these lines:

- To show wherein plant accounts may or may not reflect original costs or current values; to suggest a basis for securing a proper recognition of "plant and equip-ment" as an asset factor with bankers.
- To outline plans for accurately establishing depreciation and obsolescence as a part of overhead charged to manufacturing costs.
- 3 To determine whether or not existing methods of handling plant accounts lead to inequities in taxes.
- To suggest a trustworthy basis for bringing property values into agreement with insurance requirements and forms, and for maintaining this agreement to elimi-ate avoidable losses.
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EN years ago it was considered conservative practice to provide reserves for depreciation high enough to permit a company's land, buildings and equipment to be valued at one dollar in the company's statement.

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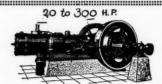
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PROPOSALS

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Bids close April 30, 1924.

U. S. Engineer Office, Jacksonville, Fla.—Sealed proposals for constructing one steel barge 80 ft. x 26 ft. x 6 ft, for the dredge BARNARD will be receive here until 12 M., April 30, 1924, and then opened. Further information on application.

Bids close May 28, 1924.

U. S. ENGINEER OFFICE, HUNTING-TON, W. VA.—Sealed proposals will be re-ceived here until 11 A. M. May 28, 1924, and then opened for constructing a Fire-proof Powerhouse at Dam No. 32, Ohio River. Further information on application.

Bids close May 14, 1924.

TREASURY DEPARTMENT, Office of the Supervising Architect. Washington, D. C., April 16, 1924. SEALED PROPOSALS will be opened in this office at 3 P. M., May 14, 1924, for the construction of a one-story brick and tile non-fireproof Post Office building, approximately 61½ by 69 feet in size, at Woodbury, N. J. Drawings and specifications may be obtained from the Custodian of the site at Woodbury, N. J., or at this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 19, 1924.

Bids close May 19, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D.C., April 21, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 19, 1924, for the removal of the present boller and furnishing and installing one new horizontal, portable, smokeless, fire-box steel-heating boller at the U.S. Postoffice, Nevada, Mo., in accordance with drawing and specifications, copies of which may be obtained from the Custodian. U.S. Postoffice. Nevada. Mo., or from this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 26, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 25, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 26, 1924, for furnishing and installing an oil-burning apparatus, etc., at the U. S. Postoffice and Courthouse, Tulsa, Okla., in accordance with specifications and drawing, copies of which may be had at this office, or at the office of the Custodian, Tulsa, Okla., in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 27, 1924.

Bids close May 27, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 28, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 27, 1924, for the removal of the present boiler and the furnishing and installing of one new horizontal smokeless firebox heating boiler, arranged for portable setting, etc., at the United States Postoffice, Fayetteville, N. C., in accordance with drawing and specification, copies of which may be obtained from the Custodian, U. S. Postoffice, Fayetteville, N. C., or from this office in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close May 23, 1924.

Bids close May 23, 1924.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., April 24, 1924.—SEALED PROPOSALS will be opened in this office at 3 P. M. May 23, 1924, for furnishing and installing a new oil-burning apparatus, storage tank, etc., at the U. S. Postoffice, Reno. Nevada, in accordance with specification and drawing, copies of which may be had at this office, or at the office of the Supervising Superintendent, U. S. Public Bulldings, Room 403, P. O. Building, San Francisco, Calif., or at the office of the Custodlan, Reno, Nevada, in the discretion of the Supervising Architect. Jas, A. Wetmore, Acting Supervising Architect.

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The same rate applies—35 cents per line per insertion.

The same rate applies-35 cents per line per insertion.

Dids close May 27, 1924.

DEPARTMENT OF THE INTERIOR, Washington, May 3, 1924. Sealed proposals, in duplicate, will be received at this department until 3 o'clock P. M. Tuesday, May 27, 1924, and then opened, for lithographing, printing and mounting 20,000 copies, more or less, of the General Land Office map of the United States for 1925. At the same time and place proposals, in duplicate, will also be opened for photolithographing and printing 3000 copies, more or less, of each of the maps of the public land states and insular possessions prepared in the General Land Office during the fiscal year ending June 30, 1925. Specifications as to the character of the work, size of maps and quality of paper required will be exhibited to bidders or furnished on application to Room 330, General Land Office, Interior Department Building, 18th and F Streets N. W., Washington, D. C. All proposals must be securely enveloped and marked "Proposal for United States map" or "Proposal for state map," as the case may be, and addressed to the Commissioner of the General Land Office, Washington, D. C. The right is reserved to reject any and all bids, or to accept or reject any part thereof in the discretion of the department. E. C. Finney, First Assistant Secretary. Bids close May 27, 1924.

Bids close May 20, 1924.

Bids close May 20, 1924.

SEALED PROPOSALS, indorsed "Proposal for Hospital Construction, Aspinwall, Pa., will be received by the U. S. Veterans Bureau, Room No, 791, Arlington Building, Washington. D. C., until 11.00 A. M., May 20, 1924, and then and there publicly opened, for the construction complete of Infirmary, Ambulant Quarters, Recreation Building, Nurses Quarters, Attendants Quarters, Officers' Quarters, Garage, Storehouse, Boiler House, Steel Water Tower and Tank. and Septic Tanks and House, also roads, drainage gutters and walks to be built at U. S. Veterans Hospital, Aspinwall, Allegheny County, Pa., as shown on drawings and as described in the specifications. This work will include reinforced concrete construction, brick and hollow tile work, metal lathing, built-up roofing, slate roofing, slate and marble work, carpentry, ironwork, plastering, painting, glazing, hardware, heating, plumbing, and electrical installation, electric elevators, outside service connections and approach work. SEPARATE PROPOSALS will be received for Building Construction; Central heating, including heating equipment for all buildings; Water Supply, Plumbing, Sewers and Gas: Electrical Work; Elevators; Refrigerating Plant; and Smoke Stack, all as set forth on proposal sheet. Drawings and specifications may be obtained upon application to the Construction Division, Room No. 791, Arlington Building, Washington. D. C., in the discretion of the Director. Proposals will be considered only from individuals, firms or corporations possessing satisfactory financial and technical ability, equipment and organization to insure speedy completion of the contract and who have established a record for expedition on contracts of similar character and magnitude. Deposit with application of a cheek or postal money order for \$100, payable to the Treasurer of the United States, is required and specifications within ten days after date of opening proposals. Frank T. Hines, Director, April 17, 1924. SEALED PROPOSALS, indorsed "PropoBids close May 22, 1924.

Bids close May 22, 1924.

SEALED PROPOSALS will be received at the office of the General Treasurer, National Home for Disabled Volunteer Soldiers, until twelve o'clock M. (central standard time), May 22, 1924, and then opened, for furnishing and delivering supplies (clothing, chinaware, bedding, stationery, etc.) for the year ending June 30, 1925. Copies of instructions and specifications can be had upon application to C. W. Wadsworth, General Treasurer National Military Home, Dayton, Ohio.

Bids close May 19, 1924.

\$30,000 5% Bonds

Sealed bids will be received by the Board of Supervisors of Clarke County, Virginia, at the Courthouse of said county, in Berryville, Va., on and until 12 M. Monday, May 19, 1924, for \$30,000 of 5% 20-year coupon bonds of said county, authorized to be issued by Act of the General Assembly of Virginia, approyed March 14, 1924.

The Board reserves the right to reject any and all bids submitted.

EUGENE GLOVER, Clerk.

By order of the Board of Supervisors of Clarke County, Virginia.

Bids close May 27, 1924.

\$174,000 6% Bonds.

\$174,000 6% Bonds.

Daytona Beach, Fla.

The Town Council of Daytona Beach, Volusia County, Florida, will receive sealed proposals at the office of the Clerk of the Town of Daytona Beach, Florida, on or before 12 o'clock noon, Tuesday, the 27th day of May, A. D. 1924, for the purchase of all or any part of ONE HUNDRED AND SEVENTY-FOUR THOUSAND DOLLARS (\$174,000) six per cent thirty-year bonds, interest payable semi-annually. Bonds dated July 1, 1924. Opinion as to legality by Reed, Dousherty & Hoyt, New York City.

A certified check for one per cent (1%) of the amount of the bonds, made payable to the Town of Daytona Beach, must accompany each bid. All bids will be opened on May 27, 1924, at 8 o'clock P. M. at the Town Hall in Daytona Beach. All bids shall be filed with the Town Clerk. The Town Council reserves the right to reject any or all bids.

For further information address E. A. Donovan, Daytona Beach, or F. W. Pope, Daytona, Florida.

E. A. DONOVAN, Town Clerk.

Bids close May 14, 1924.

\$189,000 6% Bonds **Drainage Construction**

Drainage Construction

Tampa, Fla.

Sealed bids will be received by the Treasurer at 32 Giddens Building, Tampa, Florida, until 10 A. M., May 14, 1924, for sale of \$189,000 in bonds of said district, bearing interest at 6%, payable semi-annually April and October. Certified check or cashier's check in the sum of \$2500 must accompany each bid as guarantee that successful bidder will take up and pay for bonds. No bid of less than 95 and accrued interest can be considered.

Bids will also be received by the Board of Supervisors from Drainage Contractors at same hour for construction of mains, laterals and other works set out in the Plan of Reclamation. Certified check or Cashier's check of \$2500 must accompany each bid as guarantee that successful bidder will enter into contract for such construction. Surety bond of \$50,000 will be required.

Joint bids for both bonds and construction work may be made. Such bids must be accompanied by certified check or Cashier's check of \$5000. No bidder's bond accepted either for bond bid or construction work.

Copy of plans and specifications may be

work.

Copy of plans and specifications may be obtained from the Chief Engineer by payment of \$15 to cover cost of printing.

M. D. POOLER, Secretary.

W. J. McDONALD. Treasurer.

McELROY ENGINEERING COMPANY,
Chief Engineer.

32 Giddens Building, Tampa, Fla.

Bids close May 15, 1924.

\$119,700 6% Bonds

Kingsport, Tenn.
Sealed bids will be received until eight
o'clock P. M. May 15, 1924, for the following City of Kingsport, Tennessee, six per
cent bonds:

\$20,000 PUBLIC IMPROVEMENT BONDS, dated April 1, 1924, maturing twenty years from date of issue. Denominations of \$1000.

\$67,000 CITY IMPROVEMENT BONDS, dated March 1, 1924, maturing twenty years from date of issue. Denomina-tions of \$1000.

\$24,000 IMPROVEMENT DISTRICT BONDS (District No. 18), dated February 15, 1924, maturing \$2500 annually from 1925 to 1932, inclusive, and \$4000 in 1933. Denominations, 18 bonds of \$1000 each and 12 bonds of \$500 each.

\$8700 IMPROVEMENT DISTRICT BONDS (District No. 23), dated March 1, 1924, maturing \$1000 annually from 1925 to 1932, inclusive, and \$700 in 1933. Denominations, 8 bonds of \$1000 each and 1 bond of \$700.

Interest on the issues of Public Improve-ment and City Improvement Bonds payable semi-annually; interest on Improvement District Bonds payable annually at the Hanover National Bank, New York City.

Opinion approving the legality of the bonds will be furnished by Hon. John C. Thomson, New York City, and all expenses in connection with the preparation and printing of the bonds will be borne by the City of Kingsport.

A certified check for \$1200, payable to G. D. Black, City Treasurer, must accompany each bid, and all bids must be marked "Sealed bids for bonds" and addressed to the undersigned.

The Board of Mayor and Aldermen re-serves the right to reject any and all bids.

F. L. CLOUD, City Manager,

Bids close May 29, 1924.

Bridge Construction

Sylvania, Ga.

Sealed proposals will be received by the County Commissioners of Screven County at Sylvania, Georgia, until 12 o'clock noon Thursday, May 29, 1924, for the furnishing of all material, labor, equipment and other things necessary for the construction of a concrete bridge over Beaver Dam creek, five miles northwest of Sylvania on the Sylvania-Waynesborro Highway.

Bids will also be received in like manner and at the same time for the furnishing of all labor, equipment, other things necessary for the construction of said bridge and material, except the sand and cement, being furnished by the county.

The approximate quantities are as follows:

The approximate quantities are as follows:

525.83 cu. yds. of Class "A" concrete,
68.231 pounds of reinforced steel.
352 cu. yds. wet excavation.
367 cu. yds. of dry excavation.
Work will be in direct charge of County Commissioners or their engineer. The State Highway Department specifications for the bridge will prevail. Plans and specifications for said bridge are on file in Commissioners' Office, Sylvania, Ga. The proposal must be submitted with bond for 10 per cent of the amount of the bid. Bond will be required of the successful bidder as required by law. The right is reserved to reject any or all bids and to waive all formalities.

This 29th day of April, 1924.

J. A. MILLS,
Chairman County Commissioners,
Screven County, Georgia.

Attest:
M. R. LUFBURROW, Clerk.

Bids close May 14, 1924.

Bridges and Culverts

Bridges and Culverts

Fayetteville, N. C.

Sealed proposals will be received by the Mayor and Board of Aldermen of the City of Fayetteville, N. C., until 7.30 P. M., May 14, 1924, for the furnishing of materials for and constructing reinforced concrete bridges and culverts enumerated as follows: One (1) Deck Girder Bridge over Cross Creek at Ann Street.

One (1) Deck Girder Bridge over Blounts Creek at Hawley Lane.

One (1) Deck Girder Bridge over Cross Creek at Cool Spring Street.

Two (2) Box Culverts for Blunt Creek at Cool Spring Street.

Proposals must be marked "PROPOSAL FOR CONSTRUCTING BRIDGES AND CULVERTS," All bids must be made upon blank forms provided in copies of the Proposal, Contract and Specifications.

Each bid must be accompanied by a certified check in the amount of five (5) per cent of the amount of the bid as evidence of good faith.

Copies of Plans, Specifications, Form of

faith.

Copies of Plans, Specifications, Form of Proposal, Contract, etc., may be obtained upon application to the Engineer.

The right is reserved to reject any or all bids or to award contracts which, in the opinion of the Engineer and the Board, appear for the best interests of the city.

H. J. McBUIE, City Clerk.

WILLIAM C. OLSEN, Consulting Engineer, Raleigh, N. C.

Bids close May 27, 1924.

Highway Construction

Highway Construction

Bastrop, La.

Sealed proposals will be received by the Police Jury of Morehouse Parish at Bastrop, La., up to 2 P. M. Tuesday, May 27, 1924, at which time and place they will be publicly opened, for constructing the following highways:

Route No. 15, extending from Mer Rouge to Collinston, a total length of approximately seven and seven-tenths (7.7) miles. Route No. 16, extending from Collinston to Wham, a total length of approximately seven and seven-tenths (7.7) miles.

Bidders may submit proposals on one or both routes, but a separate contract will be executed and bond required for construction of each project. Each route will be considered separately in determining the successful bidder.

Information as to location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract may, on application, be obtained at the office of the Parish Engineer, Bastrop, La. Plans and specifications may be inspected at the Engineer's office in Bastrop. Specifications, including proposal forms, will be furnished upon receipt of three dollars (\$3.00), and a set of plans additional for a total receipt of thirteen dollars (\$13), three dollars (\$3.00) to be refunded upon return of proposals either executed or blank and five dollars (\$5.00) for the return of plans undamaged.

J. L. WHITE, Parish Engineer.

W. T. SMITH, Pres. Police Jury.

Bids close May 13, 1924.

Highway Construction
STATE OF MARYLAND,
STATE ROADS COMMISSION.
NOTICE TO CONTRACTORS.
Baltimore, Md.
Sealed proposals for building seven sections of State Highway as follows:
Allegany County—Cort. A-26. One section of State highway along the Oldtown Road from the Western Maryland Crossing at North Branch to Patterson Depot, a distance of 1.55 miles. (Concrete.)
Prince George County—Cort. P.50.

Prince George County—Cont. P-50. One section of State highway along the Defense Highway from end of Cont. P-32 toward Collington, for a distance of 2.0 miles. (Concrete.)

Prince George County—Cont. P-45. One section of State Highway from the Crain Highway toward Croom for a distance of 2.0 miles. (Gravel.)

Baltimore County—Cont. B-62. One section of State highway from Chase toward Cowenton for a distance of 2.14 miles. (Concrete.)

Concrete.)

Harford County—Cont. H-37. One section of State highway from end of Contract H-34 toward Dublin for a distance of 1.0 mile. (Concrete.)

Caroline County—Cont. Co-34. One section of State highway from end of Contract Co-28 to Burrsville, a distance of 1.35 miles. (Concrete.)
Wicomico County—Cont. Wi-25. One section of State highway from end of Contract Wi-23 toward Nanticoke, a distance of 2.0 miles. (Concrete.)
will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland. until 12 M. on the 13th day of May, 1924, at which time and place they will be publicly opened and read. Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted. No bids will be received unless accompanied by a certified check for the sum of five hundred (\$500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to re-

contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this 28th day of April, 1924.

JOHN H. MACKALL, Chairman, L. H. STEUART, Secretary.

Bids close May 20, 1924.

Highway Construction

STATE OF MARYLAND. STATE ROADS COMMISSION. NOTICE TO CONTRACTORS.

Baltimore, Md.
Sealed proposals for building six sections of State Highway as follows:
Garrett County—Cont. G-28. One section of State highway from Kitzmiller toward Oakland for a distance of 1.0 mile.

Garrett County—Cont. G-28. One section of State highway from Kitzmiller toward Oakland for a distance of 1.0 mile. (Concrete.)

Frederick County—Cont. F-76. One section of State highway from end of Cont. F-64 toward Rocky Ridge for a distance of 1.0 mile. (Concrete.)

Baltimore County—Cont. B-63. One section of State highway along Eastern Avenue from the City Line to Middle River Bridge. a distance of 4.6 miles. (Alternate Sheet Asphalt Resurfacing and Penetration Macadam Resurfacing.)

Anne Arundel County—Cont. AA-39. One section of State highway along the Defense Highway from Parole toward Priest Bridge for a distance of 4.43 miles. (Concrete.)

St. Mary's County—Cont. SM-27. One section of State highway from end of Cont. Sm-25 to Budd Creek, a distance of 3.0 miles. (Gravel.)

Worcester County—Cont. Wo-32. One section of State highway from end of Cont. Wo-30 toward Salisbury for a distance of 2.0 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 20th day of May, 1924, at which time and place they will be publicly opened and read. Bids must be made upon the blank proposal form which, with specificatiors and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted. No bids will be received unless accompanied by a certified check for the sum of five hundred (\$500) dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond, and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

contracts.

The Commission reserves the right to reject any and all bids.

By order of the State Roads Commission this first day of May, 1924.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close May 20, 1924.

Paving

Gulfport, Fla.

Sealed proposals will be received at the office of the Town Clerk of the Town of Gulfport, Florida, until 7.30 P. M. May 20, 1924, for approximately 115,000 sq. yds. brick paving and approximately 93,000 lineal feet of granite curb.

Certified check for five hundred (\$500) dollars to accompany each bid.

The Town reserves the right to reject any or all bids.

Plans and specifications on the contraction of the co

any or all bids.

Plans and specifications on file with the Town Clerk and with R. D. Brodle, Town Engineer.

W. W. SWIFT, Town Clerk.

Bids close May 20, 1924.

Paving

Taving

Tavares, Fla.

Sealed proposals on blank forms furnished by the town and addressed to the "Mayor and Council of Tavares, Florida," will be received until two P. M. May 20, 1924, at Tavares, Florida, for furnishing all material, equipment and labor for doing the following work:

Approximately 84,000 square yards of street paving, with all necessary drainage, curb and gutter and other work incidental thereto, as set out in the plans and specifications.

Each bid must be accompanied

cations.

Each bid must be accompanied by a certified check or bidders' bond, made payable to the Town Clerk, for not less than five thousand dollars (\$5000).

Plans and specifications may be seen at the office of the City Clerk in Tavares, Florida, and at the office of the Engineers in Elberton, Georgia, and Leesburg, Florida.

Full sets of plans and specifications will be furnished by the Engineers upon payment of \$25, half of which will be refunded upon the return of the plans in good shape. Specifications will be furnished by the Engineers upon payment of five dollars.

The right is reserved to reject any or all bids.

J. W. HUNTER, Mayor.
W. B. FEAGLE, Clerk.
H. S. JAUDON ENGINEERING CO.,
Engineers,
Elberton, Ga.; Leesburg, Fla.

Bids close May 16, 1924.

Street Paving & Storm Drainage

Forsyth, Ga.

Sealed proposals will be received by the Board of Bond Commissioners of Forsyth, Georgia, at the City Hall for furnishing materials and labor to construct pavements, sidewalks and storm drainage in and for the City of Forsyth, Georgia, until 11 A. M. May 16, 1924, at which time they will be opened and read publicly.

The work includes the furnishing of all labor, material, machinery and equipment of every kind necessary to construct approximately 22,500 square yards of concrete pavement, with curb and gutter and other appurtenances, 20,000 square yards of sidewalks and 2000 lineal feet of storm drains, all complete in place and in accordance with the plans and specifications on file at the office of the Engineers and the City Clerk. Each bld must be accompanied by a certified check on a bank satisfactory to the Bond Commissioners for five (5) per cent of the amount bld, drawn to the order of the City Clerk of Forsyth, Georgia.

All blds will be compared on the basis of the Engineers' estimate of the work to be done.

Copies of the specifications may be ob-

the Engineers' estimate of the work to be done.

Copies of the specifications may be obtained from the Engineers or City Clerk upon receipt of deposit of five (\$5.00) dollars, which will be returned on bona fide bids. Plans may be seen at the office of the Engineers or at the office of the Engineers or at the office of the City Clerk. The right is reserved to reject any or all bids and the contract may be awarded as a whole or in part to one or more bidders as considered to the best interest of the city.

R. T. PERSONS,

J. L. McGHEE.

W. H. NEWTON,

R. C. GOOLSBY, SR.,

J. M. MOORE.

Bond Commissioners.

J. B. McCRARY ENGINEERING

CORPORATION, Engineers,

Atlanta, Georgia.

Bids close May 19, 1924.

Water Works and Sewers

Altavista, Va.

Altavista, Va.

Bids will be received by the Mayor and Town Council of the Town of Altavista, Virginia, until 6 o'clock P. M. of May 19, 1924, for the construction of a filtration and pumping plant for the municipal water works, and also for water and sewer mains in the town.

The work will include 650 feet of 10" cast iron suction main, with crib and appurtenances.

Concrete and brick building for the plant.
A 30,000 gallon steel wash water tank.
5550 feet of 8" cast-iron force main.
A 50,000 gallon steel standpipe.
Two low surface centrifugal pumps, each of 350 g. p. m. capacity.
Two high service centrifugal pumps, each of 350 g. p. m. capacity.

One 30 h. p. and one 7.5 h. p. electric motor, with wiring, etc.
One semi-Diesel fuel oil engine of not less than 45 h. p.
All necessary filter equipment for a single 500,000 g. p. day unit.
A considerable amount of cast-iron mains from 4" to 10".
A considerable amount of sewer mains from 6" to 15".
The right is reserved to reject any or all bids, and to let the work as a whole or in parts.
Each bidder will be required to file with his bid a certified check, cashier's check or bidder's bond in the sum of 5% of the face of his bid.

his bid a certified check, cashier's check or bidder's bond in the sum of 5% of the face of his bid.

This check or bond will become a forfelt to the Town of Altavista if contract is not entered upon and bond executed promptly after the award.

The successful bidder will be required to execute an indemnity bond, in the sum of one-third the face of his bid, to safeguard the satisfactory performance of the contract. This bond must be made by some satisfactory bonding company.

Plans and specifications may be examined at the office of Mr. W. S. Corbin, Altavista, Virginia, who will furnish a set to contractors only on receipt of a check for \$10.

This deposit will be returned only to those who have submitted bona fide bids and returned the plans and specifications in good condition before the time of the receipt of bids.

W. S. CORBIN,
Chairman Water Committee,
THE AMBLER ENGINEERING CO.,
Richmond, Virginia.

Close May 20, 1924.

Water Supply Improvements

Oklahoma City, Okla.

Oklahoma City, Okla.

Sealed bids will be received by M. Peshek, Jr., City Clerk of the City of Oklahoma City, Oklahoma, up to 12 o'clock noon Tuesday. May 20, 1924, and a duplicate of each bid must be filed with the City Auditor of the said city, and will be opened and considered by the Board of Commissioners at 2 o'clock P. M. Tuesday, May 20, 1924, for the construction of the following improvements to the Municipal Water Supply for the city of Oklahoma City, Oklahoma.

Stoplogs, Flashboards, Gates and Electrical Apparatus for reconstructed and extended main dam, Ambursen Type.

All of the necessary work and materials used shall be in strict accordance with the plans and specifications therefor on file in the office of the City Clerk.

Bidding forms and non-collusion affidavit forms must be obtained from the City Clerk, and no proposal will be considered unless made on such forms.

A certified check on any national bank for at least five (5%) per cent of the bid, made payable to M. Peshek, Jr., City Clerk, must accompany each proposal.

The bidder to whom the contract is awarded will be required to give bond in the sum of twenty-five (25%) per cent of the contract price for faithful performance of the work and an additional bond in the sum of one hundred (100%) per cent of the contract price for faithful performance of the work and an additional bond in the sum of one hundred (100%) per cent of the contract price for the payment of all indebtedness incurred in connection with said work.

Each bidder shall agree to enter into a contract and furnish the required bonds within ten (10) days after the acceptance of his bid, and shall state in his bid when he will begin the work and the length of time necessary for the completion of the same.

A deposit of fifty (\$50) dollars will be required for each set of plans and specifica-

same.

A deposit of fifty (\$50) dollars will be required for each set of plans and specifications. Such deposit will be refunded upon the return of the plans and specifications in good condition after the bids are opened. The Board of Commissioners reserves the right to reject any or all bids.

M. PESHEK, City Clerk.

Bids close May 20, 1924.

Municipal Water and Light Plant **Improvements**

New Iberia, La.

New Iberia, La.

Sealed proposals will be received by the City of New Iberia, La., at the Clerk's office until 3 o'clock P. M. May 20, 1924, for furnishing and installing of machinery and equipment and doing such work as outlined hereafter in connection with the improvements to the water and light plant.

The work will consist of the furnishing and installation of two 275 K.W. alternating current generators, direct connected to Diesel oil engines, a switchboard, two 1000

GPM Centrifugal fire pumps, one 600 GPM Centrifugal pump, one 1000 GPM Centrifugal pump, all pumps direct motor driven, the construction of a new power-house building and a 200,000-gallon reinforced concrete reservoir.

Plans and specifications are on file at the Clerk's office at New Iberia and in the office of J. W. Billingsley, Consulting Engineer, Interstate Bank Building, New Orleans. Copies of the plans and specifications may be obtained from the Engineer upon payment of \$10, which will not be returned.

A deposit of \$500 in cash or certified check is required with each proposal.

A bond to the amount of 50% of the price bid is required with the contract.

Proposal must be submitted on the special form provided by the Engineer and shall be sealed and addressed to the City Clerk.

The right is reserved to reject any or all bids.

J. W. BILLINGSLEY, Consulting Engineer. City Clerk.

Bids close May 20, 1924.

Sanitary Sewers

Birmingham, Ala.

Birmingham, Ala.

Sealed proposals will be received by the undersigned until 10 o'clock A. M. Tuesday, May 20, 1924, for the construction of approximately 14,000 lineal feet 8-inch, 4000 lineal feet 10-inch, 2000 lineal feet 12-inch, 4000 lineal feet 15-inch and 1200 lineal feet 18-inch terra cotta sewers; 4500 lineal feet 30-inch sewers, together with necessary manholes and appurtenances, under Improvement Ordinance No. 346-D. Specifications may be obtained and plans examined at this office. The right is reserved to reject any or all proposals.

A. J. HAWKINS, City Engineer.

Bids close May 29, 1924.

Sewer Construction

Pine Bluff, Ark.

Pine Bluff, Ark.

Sealed bids will be received by the Commissioners of Sewer District No. 1 of Jefferson County, Arkansas, at the Assembly Room of the Chamber of Commerce in Pine Bluff. Arkansas, until 11 o'clock A. M. Thursday, May 29, 1924, for the construction of a system of sanitary sewers in said district.

The approximate quantities of the work to be done are as follows:

10.869 linear feet Trench 0-6 feet deep 22.705 " " 6-8 " " 17.076 " " 8-10 " " 17.076 " " 10.12 " " 10.12 " " 17.330 " " " 10.12 " " "

0- 6 feet deep 6- 8 " " 8-10 " " 10-12 " " 12-14 " " 0- 6 6- 8 8-10 10-12 12-14 14-16 16-18 18-20 20-22 22,705 17,076 7,330 4,430 292 395 64 64 44 44 395 540 375 32,929 19,122 4,388 3,727 3,796 204 6-inch 8-inch 10-inch 12-inch 15-inch Clay Pipe. 46

3.796 " 15-inch " "
204 Manholes.
8 Flush Tanks.
1 Disposal Plant.
Proposal forms and any additional information can be obtained from the Parkes Engineering Company, engineers for the district, 202 Citizens' Bank Building, Pine Bluff, and plans and specifications can be examined there. Persons desiring a set of plans and specifications for their own use can obtain same from the engineers for the sum of \$7.50, none of which will be refunded.
All bids must be made on the proposal

sum of \$7.50, none of which will be refunded.

All bids must be made on the proposal forms as furnished by the engineers. Bids will be received upon the sewer system proper and the disposal as a whole or separately, as the bidder may desire, and the Commissioners reserve the right to award the disposal plant and the sewer system proper separately or as a whole, or to reject any and all bids, as they may deem for the best interest of the district.

Each proposal must be accompanied by a certified check or bidder's bond to guarantee that the proposer will execute the contract and make bond as required in event that his proposal is accepted. Such check or bond must be in the sum of five thousand (\$5000) dollars if the bid is for the entire work, four thousand (\$4000) dollars if for the sewer system proper only or one thousand (\$1000) dollars if for the disposal plant only.

O. W. CLARK. GEO. V. BEALL, JOHN F. RUTHERFORD, Commissioners.
PARKES ENGINEERING CO., Engineers. Bids close May 14, 1924.

Street Lighting System

The City of Johnson City, Tenn.

The City of Johnson City, Tennessee, proposes to install an ornamental street lighting system, commonly known as White-Ways, along certain streets, and the Board of Commissioners of said city will open blds for said work at its regular meeting to be held at 2 P. M. May 14, 1924. All bids should be filed with the Recorder of said city.

held at 2 F. M. Say 11.

should be filed with the Recorder of said city.

The city reserves the right to award the contract as a whole to one contractor, or to award individual contracts on each section separately to different contractors.

The proposed ornamental street lighting system will be of the Single Standard Type and will require 175 standards, more or less. Bids are desired on:

(a) Constant current regulating transformers, control panels, measuring instruments and current transformers.

(b) Ornamental posts complete with tops, sockets, glassware, compensators, canopies and potheads.

(c) Required number of street series lamps for tip-up burning.

(d) All necessary wire and underground cable.

(e) Installation of the whole equipment

(d) All necessary wire and underground cable.

(e) Installation of the whole equipment ready for connection to the local power company's lines.

Plans and specifications are being prepared under the supervision of the City Engineer and will be furnished prospective bidders upon request as soon as they are prepared.

Bids must be accompanied by a certified check or suitable bond in a sum of at least ten per cent of the amount of the bid, and the successful bidder will be required to execute a bond in amount equal to fifty per cent of the contract price, conditioned that the contractor shall well and truly perform all of the terms and conditions of the contract.

The city reserves the right to reject any

The city reserves the right to reject any and all bids.

By order of the Board of Commissioners.

T. H. McNIEL, Recorder.

Bids close May 19, 1924.

Public Library Building

Florence, S. C.
Sealed proposals will be received by the
Board of School Commissioners of the School
District of Florence, S. C., on Monday, May
19, 1924, 12 o'clock, at Florence, S. C., for
the erection and heating and plumbing of a
Public Library Building for the City of
Florence, S. C., according to the plans and
specifications prepared for same by Wilkins
& Hopkins, Architects, Florence, S. C.
Plans and specifications may be secured
by the contractors upon a deposit of a certified or cashier's check for twenty-five
(\$25) dollars, which deposit is to be returned upon the submission of a bona fide
bid and the return of the plans and specifications in good condition to the Architect's
office.

Proposals for the erection of the building shall be accompanied by a certified check of two thousand (\$2000) dollars and proposals for heating and plumbing shall be accompanied by a certified check for five hundred (\$500) dollars, said checks to be made payable to the order of Dr. N. W. Hicks, Chairman. No proposals will be accepted unless accompanied by the above-mentioned check and no bid bonds will be accepted. Bond will be required of the successful bidders in the amount of one-fifth (1-5) of the contract price.

The right is reserved to reject any or l bids. Plans may be secured from the office of

(Signed.)

the Architects. Board of School Commissioners of the School District of the City of Florence, S. C.

> DR. N. W. HICKS, Chairman. HENRY E. DAVIS, Secretary. JOHN C. McCLENAGHAN. R. E. CURRIN. A. A. COHEN.

Bids close May 22, 1924.

School Buildings and **Improvements**

Improvements

Meridian, Miss.

Sealed bids will be received until 7 P. M. May 22, 1924, by the School Board at their office in the Municipal Building, Meridian, Mississippi, for the construction of a new Junior High School and to remodel Senior High and Manual Arts Building, remodel and build annex to East End (White and Colored), West End (White and Colored), Southside and Weschler School Building, also installing plumbing, heating, wiring and program clock system.

Plans and further information can be had on application, and deposit of twenty-five (\$25) dollars for each with P. J. Krouse, Architect, Meridian, Mississippi: also at the same time and place sealed bids will be received for the construction of a New Mario Park Elementary School Building, Southside negro school and to remodel Stevenson and Tuxedo Elementary Schools, and to remodel and extend the Highland Elementary School; also installing, plumbing, heating, wiring and program clock system.

Plans and further information can be had on application and deposit of twenty-five (\$25) dollars for each with Burt Stuart, Architect, Meridian, Mississippi.

H. M. IVY. Secretary Board of School Trustees.

Bids close June 6, 1924.

Concrete Sea-Wall

Sealed bids will be received by the Board of County Commissioners. Hillsborough County, Florida, until 11 A. M. Friday, June 6, 1924, for the construction of approximately two and one-half miles of concrete sea-wall, hydraulic fill, sidewalk, curb and drainage appurtenances.

Wall extends from city limits of Tampa south to Ballast Point.

Plans and specifications may be obtained by application at the office of the County Engineer, Courthouse, Tampa, Fla. A deposit of \$10 will be required for each set, deposit to be refunded upon return of plans before June 6.

Following is a list of approximate quantities:

Signed.
CHAS. T. FRIEND, Chairman
Board County Commissioners.
Hillsborough County, Fla.

Bids close May 20, 1924.

Waterfront Improvements.

Daytona, Fla.

Daytona, Fla.

Sealed bids will be received by the City of Daytona, Florida, at the City Hall in Daytona, up to 2 P. M. on May 20, 1924, for the construction of waterfront improvements. The work is divided into three contracts and will be let to one or more bidders. Contract No. 1 embraces about 5500 lineal feet of sea wall about seven feet high, about 192,000 cubic yards earth fill and miscellaneous small work. Contract No. 2 embraces about 1300 lineal feet of sea wall about seven feet high, about 1400 cubic yards earth fill and miscellaneous small work. Contract No. 3 embraces about 3300 lineal feet of sea wall about six feet high and about 103,000 cubic yards of earth fill.

Bids shall be accompanied by a certified check payable to Miss L. E. Hough, City Clerk, for an amount of five per cent of the bid, to be forfeited as liquidated damages by any bidder who is awarded a contract and who fails promptly to execute the contract and bond. Certified checks will be returned to bidders upon execution of contracts and bond, or sooner, upon action of proper authorities. The purchaser reserves the right to reject any and all bids and to waive informalities. Bids shall be based upon plans and specifications now on file in the office of the City Clerk at Daytona. Florida, and in the office of Harrington, Howard & Ash, Consulting Engineers, Kansas City, Mo. Copies of plans and specifications may be secured from the Consulting Engineers by depositing \$25. These plans shall be returned and \$15 will be refunded.

A surety company bond satisfactory to the purchaser in the full amount of the value of each contract will be required.

L. E. HOUGH, City Clerk.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—Moulding and Silica Sand Land, Clay Land and Factory Sites. Address T, J. NERTNEY, Ottawa, Ill.

ARIZONA COPPER GROUPS—32 claims, \$175,000; 38 claims, \$300,000; 15 claims, \$18,000. Arizona gold; big body, free miling, 80 feet wide; runs \$3.20, with 7 parallel veins 2 to 10 feet running from \$3.00 to \$60.00. Price \$30,000. A. H. Blinebry, Box \$27, El Paso, Tex.

I HAVE MANY fine southern timber tracts, large mineral tracts, plantations, country estates and colonization tracts for sale; some can be exchanged clear for good city income property. Principals only write me fully. Arthur M. Connor, 726 14th Street N. W., Washington, D. C.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line, When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display, type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

MANGANESE

FOR SALE OR LEASE—Large quanti-ties of manganese and manganiferous ore. Equipment and railroad facilities installed. Address No. 6325, care Manufacturers Record.

STONE QUARRY

FOR SALE OR LEASE—One of the largest stone quarries in Virginia, stone already quarried. Splendid opportunity. Address No. 6226, care Manufacturers Record.

TIMBER AND TIMBER LAND

FOR SALE—15 to 20 Million Ft. best Hardwood and White Pine timber in West Virginia. This is not a timber broker's proposition and am not interested in corresponding with anyone except lumber manufacturers who are open for good stumpage proposition and wish to make immediate investigation. Address No. 6312, care Manufacturers Record, Baltimore, Md.

FARM, FRUIT, AND TRUCK LANDS

FLORIDA

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet. "Largest Orange Tree in the World," and list. Tampa-West Coast Realty Co., (Inc.). Opp. Post Office, "Since before the war," Tampa, Fla.

EVERGLADE LAND, rich, deep muck soil, five-acre truck farms up to 40,000-acre colonization tracts, million and a half dollar sugar mill near which refined sugar this year. Land adapted to truck, fruit, sugar cane or stock farming.

STEWART, HOLLOPETER & McCUNE, Realtors, Miami, Florida.

FOR SALE—50 A bearing Orange Grove. Estimated crop for coming season 15.000 boxes. Located 3 miles from Leesburg on Lake Harris. No better location in Florida. If interested write for full information and price. B. F. Watts. Leesburg, Fla.

FOR SALE

FOR SALE

Sx thousand acres of land, good for fruit and farming, also fine satsuma orange land, high, well drained, over two hundred feet above sea level; fine lakes and good fishing and hunting, will take \$12.50 per acre, other land in same vicinity has been selling as high as \$200.00 per acre, this is a good purchase. Will net any purchaser 8 per cent annually on his investment. Apply to G. M. Thomas, Marianna, Fla.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at or near Tampa, Florida, the seventh largest port in the United States. Jasper Walker, P. O. Box 674, Tampa, Florida.

WANTED CAPITAL to develop townsite, own 640 acres that two railroads cross on, in S. E. Okla., surrounded by coal, oil, gas and rich farming. Particulars to interested parties only. Write J. E. Cavanagh, parties only. McAlester, Okla.

FOR SALE FISHING RIGHT. The best in the State. Lake covers two thousand acres of land. Will sell exclusive right and I will look after same. Fine hunting also. Will give deed, good title. A great place for sport place for sport. G. M. Thomas, Marianna, Fla.

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW
Harlow Building,
Alexandria, Va.

Colorado Building,
Washington, D. C.

I HAVE HIGH CLASS City income properties showing 10% net or better; will consider improved going plantations, country estates and ranches as part payment; describe fully; owners only. Arthur M. Conner, 726 14th Street N. W., Washington, D. C.

HERE IS WHAT YOU HAVE BEEN LOOKING FOR.

AN OPPORTUNITY TO OWN ONE OF THE MOST BEAUTIFUL PLACES IN AMERICA.

The Emerald Valley of Ashe County. North Carolina, is now accessible by good motor road, and will soon become widely known to lovers of nature. I am offering the most charming spot in the Valley for sale. Seven hundred and fifty acres, located near the picturesque little village of Creston. N. C., 20 minutes' drive over scenic road from railroad station. Delightful and healthful climate, 3000 feet elevation, sheltered by two grand peaks each over 5000 feet. One hundred acres level meadow, not subject to overflow, three hundred and fifty acres rolling pasture, remainder in original forest, containing over 3,000,000 feet of magnificent oak, maple, chestnut and other hardwoods. Suitable for country estate or summer resort development. Swimming, trout fishing, pheasant and quall shooting, mountain climbing, polo, golf. Gravity water supply of pure mountain water can be obtained and 100 H.P. hydro-electric power can be developed. For further particulars regarding this wonderfully beautiful and fertile place address W. H. Worth, Jefferson, N. C.

BUSINESS OPPORTUNITIES

SUBSTANTIAL MANUFACTURING COM-PANY wants capable man to open office and manage salesmen, \$500 to \$1500 necessary. Possibilities unlimited. Atlantic Coast Mfg. Co., McKevitt Bldg., Norfolk, Va.

WANTED—Absolutely reliable brokerage firm to sell stock in large commercial orchard enterprise in the finest apple section of the South. First-class references and successful experience indispensable. Address No. 6328, care of Manufacturers Record, Baltimore, Maryland.

WANTED PARTNER.

Wanted—Party with thirty-five thousand dollars to join us in subdivision of ten thousand acres land, located in the heart of the greatest trucking section in Florida; opportunity to turn this in eighteen months at seven hundred to eight hundred per cent profit. Write for further information.

SOUTHERN LAND & INVESTMENT CO., Tampa, Fla.

WANTED—A young man having engineering and sales experience in refrigeration and power plant equipment to join me as partner, with five to ten thousand dollars to match mine, to expand an established business in one of best cities of the Southland. Must be a sober Christian gentleman. Address No. 6329, care of Manufacturers Record, Baltimore, Md.

GEORGIA ACREAGES for sale—100 acres original woodland, 7 miles Atlanta, one mile Emory University, suitable for suburban estates, \$21,000: 206-acre farm 8 miles Atlanta. 2 miles Decatur, \$36,000; 1000-acre farm, 35 miles Atlanta, 10 miles Covington, several tenant houses, \$15 acre. Fletcher Pearson, Decatur, Ga.

PATENTS FOR SALE—Outright or on royalty basis, on Two Row Kafir Corn Har-vester, issued 1923. H. G. Bielhen, 1032 W. William St., Decatur, Ill.

FILTER SAND USERS.—We are offering for filter purposes. 98½% silica sand, effective size .45 millimeters, uniformity coefficient 1.6. Sample sent on request. EVANS SAND CO., ELLIOTT, S. C.

FOR SALE nice home, 600 acre narm and hydro-electric plant with a twenty-year contract with the City of Marianna for light and power. Plant pays ten thousand dollars a year: also good fishing and hunting as there is in the State, fine sport. An ideal place for anybody to live. Six miles South of City of Marianna. Want to sell quick. Wire or write or come to G. M. Thomas, Marianna. Fla.

COLLECTION

COLLECTIONS MERRIAM. 507 FIFTH AVENUE, NEW YORK CITY

MILLWRIGHT WORK WANTED

WANTED: Millwright work by day or contract; 20 years experience erecting dams, water wheels and general mill machinery, J. H. Boyd, Chester, Va.

INDUSTRIES WANTED

PILOT MOUNTAIN, N. C. wants industries. Good climate and labor conditions, several hundred electric horsepower for sale 1c per KW. Hr. owned by town. Will offer inducement to assist in location of industries. Write Chamber of Commerce.

THE NEW TOWN, SCHRIEVER, LOUIS-IANA, was denominated "The 100% Town" by a magazine writer the other day. That is proper, for every business in the place is making money; even the postmaster wears continually a prosperity smile. With a distinctive purpose to advertise the place, every-one is painting his building white. Already it is known as the White City. Schriever lacks 9 days of being 4 months old, but it is the firmly established civic center of a prosperous, productive district, which is thickly settled with a citizenry bred to work and economy. One thousand automobiles pass over the fine highways through Schriever every day. The graphically told history of romantic Schriever mailed on request. Association of Industries, Schriever, Louisiana.

INDUSTRIAL PLANTS

INMAN, S. C., wants industries, large and small. Good climate, good labor conditions, electric power, water. Will offer inducements to assist in location of good industries. Write Secretary Chamber of Commerce.

SPECIAL INDUCEMENT offers small factories located in Van Wert, Ohio, plenty of labor, lowest tax rate, best transportation. Address Chamber of Commerce, Van Wert, Ohio.

FOR MANUFACTURING SITES Investments, Homes, Investigate, GREENWOOD, S. C. Y. May.

A SPLENDID LOCATION and building 275x65 for any kind of manufacturing plant. Splendid transportation facilities, hydro-electric power. Splendid labor conditions. Millions of feet of timber. Address Chamber of Commerce, Burlington, N. C.

Chamber of Commerce, Burlington, N. C.

THE NEW TOWN OF SCHRIEVER, LA., has gas; it may have oil. The heart of Louisiana's sugar country, Schriever is 75 years old and never a lot was sold until January 4, 1924. The Schriever Industry Bulletin, free for three months, graphically gives its history. With three railroads and in a circle of thirty miles are eight county seat towns and more than 100,000 prosperous people. The Twin Bayous, the famous Terrebonne and Lafourche, are Industrial Canals Providence made. The climate, salubrious and healthful. is guaranteed. The rich plantations of which Schriever is the center are now being subdivided into cheap little farmsteads. We offer small factories that no other place in the 48 states can possibly offer. Write the Schriever Association of Industries, Schreiver, La.

INDUSTRIAL PLANTS

If interested in buying
A SOUTHERN COTTON MILL
Write to
F. C. ABBOTT & COMPANY
Charlotte, N. C.
26 years' experience in Southern Mill Stocke

FOR SALE—Machine shop, fully equipped, Building 60x200. Foundry building 40x80, 1,60 acres of ground, 440 feet railroad siding. Plant suitable for manufacturing or assembling business. Location center of manufacturing district, Huntington, W. Va. ALESHIRE-HARVEY CO... Box 1118, Huntington, W. Va.

BRICK MANUFACTURING PLANT. For sale or lease. Low price and easy

U. H. DAVENPORT, Athens, Georgia.

FOR SALE—Up-to-date Sand and Gravel Plant with modern plant and machinery located in a territory adjacent to Muscle Shoals. Chattanooga and Birmingham. This plant has always been a money-maker and can stand inspection. Address No. 6224, care Manufacturers Record. Baltimore, Md.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman. Patent Lawyer, 644 G St., N. W., Washington, D. C.

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WRITE for our—free Guide Books and
"RECORD OF INVENTION BLANK" before disclosing inventions. Send model or
sketch and description of your invention for
our free prompt opinion of its patentable
nature. Highest references. Reasonable
terms. VICTOR J. EVANS & CO., 712
Ninth St., Washington, D. C.

INVENTORS-Send sketch or model of INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for Patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chandlee & Chandlee, 412 7th St., N. W., Washington. D. C.

OLD RARE COINS

- 20 Coins from 20 different countries...\$1
 10 Old large U. S. Cents......\$1
 20 Small U. S. Cents (uncirculated) ..\$1
 Or all with price list for.......\$2
 FOREIGN BOND & COIN EXCHANGE,
 314 A Slaughter Building, Dallas, Tex.

SITUATION WANTED

EXECUTIVE seeking responsible position. Seven years asst. to gen. mgr. Four years, and at present assistant sales mgr. concern doing over three million yearly. Graduate leading eastern university; mental type, analytical. capable, levelheaded, hard worker; age 36. Reasons for desiring change will convince you. Location unimportant, but prefer East or South. Address No. 6323, care Manufacturers Record, Baltimore, Md.

MEN WANTED

THE CITY OF FLORENCE, S. C., desires to receive applications from qualified persons for the position of City Manager. Apply by letter to Mayor, Florence, S. C., stating age, educational qualifications, experience and salary desired.

SALESMAN—High grade salesman with mechanical training to sell Davenport Heavy-duty Oil Engines to dealers and industrial plants. Opportunity to earn big commissions. Full time and side line men wanted. Write Dept. 309, Davenport Mfg. Co., Inc., Davenport, Iowa.

MEN WANTED

SALARIED POSITIONS \$2500 to \$25,000 upward; executive, technical, administrative, engineering, manufacturing, professional, managing, financial, etc., all lines. If you are qualified and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way, R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

WANTED—Traveling salesman by old and established manufacturing concern in the South to sell line of centrifugal sand and dredging pumps and hydraulic equipment in Southern territory. Must be active man and experienced in sand and gravel operations. State age, experience and salary wanted. Position to be filled at once. Address No. 6327, care Manufacturers Record.

MACHINERY AND SUPPLIES

FOR SALE—Ransome 7 S Bantam mixer with side loader and eight-foot chute; mounted on iron wheel truck. Six horsepower Novo engine with Bosch Magneto. All in good running order.

R. G. DAVISON,
Jamesburg, N. J.

FOR SALE—5-ton Holt Caterpillar, 8-wheel Log Wagons, Hill Curtis Top Saw Rig and Overhead Log Turner; Circular Sawmills complete; Camp Outfits, etc. MORRISON, GROSS & CO., Elkins, W. Va.

ONE 300 H.P. E. Keeler Co. make, but strapped, triple riveted, Water Tube Boiler, 150 lbs. pressure; price, \$2750. One Water Heater, four-heater capacity; two Worthington Pumps, all used with above boiler; price, \$1250. One Warren Single-phase Generator, with exciter; price, \$600. Two 13"x12" Ball engines; price, each, \$500. S. M. Kitzmiller, Shippensburg, Pa.

MACHINERY AND SUPPLIES WANTED

WANTED TO BUY
28"x48" Corliss Engine, Hardie-Tynes prerred. W. M. RITTER LUMBER CO., ferred. W. M. Columbus, Ohio.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST



FLORIDA WANTS YOUR INDUSTRY

If you are contemplating the location of or investment in any industry in Florida or desire to make investment in lands, developments or any business in Florida. Have your investigations and certified reports made by registered Florida engineers who are residents and familiar with all local conditions. Each dollar invested in a report may save you hundreds,

Associate Engineers in Every County

Florida Associated Engineers Bus Terminal Building, 25-27 W. Central Ave., ORLANDO, FLA.

Factory For Sale

Substantial buildings; 35,500 sq. ft. floor space; readily convertible; on improved state highway; railroad switches main line B. & O.; good labor supply; located on outskirts of theiring either. of thriving city.

For full information write

M. WARDNER DAVIS, Trustee Salem, W. Va.

WANTED

Young man, forty years of age, university graduate, who has been practicing law in a small Southern town, is giving up practice, and desires a position as private or confidential secretary, adjuster, claim agent, or other position where his special training would be advantageous.

Law practice now unprofitable, due to boll weevil conditions. Has had a general, civil and corporate practice.

Willing to begin on moderate salary. Personal interview solicited and correspondence invited. References furnished.

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Capital \$350,000

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MANUFACTURERS RECORD BALTIMORE, MARYLAND



RESALE DEPARTMEN

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EQUIPMENT

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WANTED

STEEL PILING

175 Pieces 20 to 30 feet. 90 Pieces 32 to 50 feet. Address A-328

Care Manufacturers Record BALTIMORE, MD.

WANTED

To purchase about 7 miles of class B bell and spigot used cast iron pipe, in 10, 8 and 6-in. sizes.

Waterworks Improvement District No. 2 of Conway, Ark. E. V. Leverett, Engineer

WANTED

Two drum and swinger or three drum skeleton steam hoists or with A.S.M.E. boilers

and
Two drum and swinger or three drum electric hoists
25 to 50 H.P. motors.

MALLORY MACHINERY CORP. 522-524 Light St. Baltimore, Md.

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MORE SURE than baseball's most famous double play are the doubles 田田 and triples of Linde.

Such plays as Chicago to Detroit to Toledo, and Savannah to Atlanta to Birmingham to St. Louis, are not uncommon with Linde. The 115 plants and warehouses of the Linde Company constantly "assist" one another, so that you may have all the oxygen you want when you want it.

If you are a Linde user, Linde will also 'assist" you in using your oxy-acety-

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The field service rendered by the Linde Company to its customers brings it in close touch with the common problems of these customers. Frequently these can be answered by a book covering some phase of the oxy-acetylene process. That is the genesis of all Linde books.



"Cast Iron Welding by the Oxy-Acetylene Process," a 122-page illustrated book, is the Linde Company's answer to a common need for more detailed information on the subject.



"This book on cast-iron welding." says Industrial Gases, "fully maintains Gases, "fully maintains the highstandard of knowledge and experience which one expects to find in all publications for which the Linde Air Products Company makes itself responsible."



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Watch this column for announcements regarding Linde books.

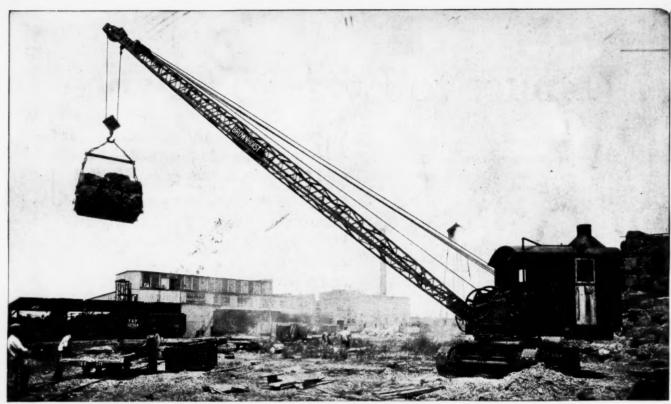
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38 PLANTS-77 WAREHOUSES



LINDE



One of the No. 2 Brownhoist Creeper Cranes at the mills of The Celotex Co., New Orleans, La.

Performance Proved Their Worth

We have just prepared an interesting and attractive booklet on the No. 2 Brownhoist; a small crane that offers a choice of R.R. truck or creeper truck mountings, powered with steam, gasoline engine

Write for your copy of "Man Power Multiplied."

or electric motors.

The performance of Brownhoist cranes is so universally satisfactory that owners in most cases standardize on Brownhoists for their additional equipment.

Recently The Celotex Co., of New Orleans, Louisiana, purchased their fifth No. 2 Brownhoist creeper crane. These repeat orders are conclusive evidence of the worth of these cranes as economical material-handling machines.

These five creeper cranes are employed in handling baled bagasse, or sugar cane fibre, the raw material from which Celotex insulating lumber is manufactured.

The satisfaction of this company with Brownhoist cranes is typical of hundreds of industrial plants, railroads, mines and contractors in all parts of the world.

Our experience in solving the handling problems of scores of industries will be helpful to you. Let us show you what a Brownhoist will do on your work.

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Branches: New York, Chicago, Pittsburgh, San Francisco, New Orleans, London, Eng.
Products-Locomotive Cranes, Buckets, Bins, Heavy Dock Machinery and Bridge Cranes

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MATERIAL HANDLING MACHINERY

